REQUEST FOR PROPOSAL for GUARANTEED ENERGY SAVINGS CONTRACT

MSD of Wayne Township

REVISED TIMELINE

<u>Date</u>	Action Item
Jan. 3, 2022	On site visit
Jan. 12, 2022	Deadline for follow up questions from respondents to be received by MSD Wayne Township. Respondents are to email questions to Zach Dennis (zachary.dennis@wayne.k12.in.us) by 2 PM Eastern time
Jan. 19, 2022	MSD Wayne Township will respond publicly to all follow up questions via our public notification website (https://district.wayne.k12.in.us/public-notices/) by 2PM Eastern time
Feb. 1, 2022	Proposals are received by 2PM Eastern Time at the MSD Wayne Township Education Center (1220 S. High School Rd Indianapolis, IN 46142) or electronically at Barry.Gardner@wayne.k12.in.us . Due to the ongoing construction at the Education Center, electronic submission is preferred.
Feb. 3, 2022	In-person interviews for finalists
Feb. 7, 2022	Board selects the best Qualified Provider as recommended by the Administration
Week of 2/7/22	Notice to proceed offered

All questions received and the responses of MSD of Wayne Township.

- 1. The RFP is clear on which facilities are selected for solar installation and the bills have been properly provided. There is no supporting documentation in this RFP for what specifically the governance of the current facility needs are (outside of the solar application). This element will also impact the size of the solar system to be installed. There is a limit on how much electricity can be generated on site (1 MW AC for Net Meter per meter the system is connected too) as a direct reflection of how much electricity is being provided by the utility or consumed by the facility. Any Guaranteed Energy Saving Provider will need to identify and understand the lowering of demand either what is planned or needed for proper energy generation sizing. The way this section is worded the respondents are required to explain current facility needs and in the overall evaluation this section represents 40% of the overall assessment.
 - a. If there are known ECM's then that should go into the solar design for proper sizing, if there are not known ECM's then we would suggest an audit application to identify and advance ECM integration. In the absence of the known ECM there is an inability to be accurate with the establishment of power supply and offset and holistic efficiency planning to maximize visual value proposition for the facility/district.

Answer: MSD Wayne is looking forward to the creativity offered by GES providers. No known ECM's at this time and leaning on respondents to offer ECMs in their proposal.

- 2. The listing of facilities being asked to deliver for July 1st COD regarding the solar projects has the potential for being all over the place from respondent to respondent regarding system size, savings, and accuracy. What is the School's overall goal for the solar projects? Will the School want respondents to design to get as close to 100% offset as possible as to maximize carbon offset? Or is there more of a financial focus of providing the best system size to maximize the return on investment and payback? Most of these facilities will have a reduced IRR if the solar is designed to 100% consumption offset, therefore, understanding a design goal is paramount in determining the best solution for the School's needs.
 - a. If the School would like to target 100% offset for as many of the schools as possible and the IRR is not of focus, would the School consider solar PV carports in the parking areas? This type of system will be much more costly than a typical ground mount or rooftop application.

Answer: The overall goal of the energy savings process is to reduce the financial obligation of our energy usage in the long term. MSD Wayne understands that 100% offset is likely not possible at every site. The creativity of respondents for their proposal is welcomed at each site.

3. Regarding savings, there is the matter of SREC's and their value over time. So that the district isn't provided a savings value or project impact by an uncertain and certainly variable in its value SREC impact how is the district going to handle the environmental attributes? My suggestion would be to either leave out and say that environmental attributes are the district's property or have everyone use the same value which can be averaged over the last 3 years or something.

Answer: MSD Wayne will take this under consideration.

4. In the Addendum released following the initial RFP there are facilities that have completed interconnection agreements to be utilized by respondents. If the substance of the equipment or technology changes the interconnection Agreements will need to be modified or redone (this is the more realistic of the impacts). The question here is consistent with the overall theme, solar is not always the best Demand lowering impact so by evaluating the facilities we may suggest changes to these systems that are beneficial to the district. Another consideration is the supply chain itself. Required in the Interconnection Agreements are identified solar modules and inverters. They may or may not be available in the time frame we need to complete the project on time. We can use the facts as shared in the addendum to respond to the RFP, but they may not be utilized for the reasons listed above.

Answer: MSD Wayne is open to substitutions of components to maximize our savings.

5. Site Visit. Following a presentation or Q&A between the respondents and the district will the respondents be able to evaluate the facilities? If we are going to evaluate 25 facilities we are going to need several team members to be in attendance. Conversely, if there are already completed audits or evaluations the district has already completed will that data be share to limit the facility evaluations on the 3rd. If we have to evaluate 25 Facilities we may need to include 8-13 site evaluation teams in order to be complete and accurate in the data gathering. In order to properly prepare for the site visit can you please let us know how to prepare given the nature of the respondent being required to understand the needs of the facility?

Answer: January 3rd will be the date to visit our sites and respondents should prepare accordingly.

6. The addendum drawings that were sent for this RFP included floor plans and roof plans for each facility but there was no data included that shows existing electrical service location, type of electrical service (480V 3-phase, 208V 3-phase, etc.), or size of existing gear. Can the school provide existing as-built drawings for the electrical equipment feeding the building as this information will be needed to determine the type of interconnection for the solar projects. (We can also gather this detail on the site visits of the facilities).

Answer: Please plan to accomplish this during the January 3rd site visits. If possible, asbuilt drawings will be provided to attendees at the January 3rd meeting.

7. Can the existing Level 2 Interconnection Agreements that were provided with Addendum 1 that are already in possession of the owner be utilized/extended for addresses other than the addresses listed?

Answer: These agreements are site specific.

8. Currently Indianapolis has a backlog in solar projects and permitting has been delayed. Has the school district or any other entity submitted any portion of these projects for permitting to ensure it can be accelerated to make the July 1st, 2022 net metering date achievable?

Answer: No. MSD Wayne is expecting respondents to relay what they feel that they can accomplish by that date.

9. Have any additional agreements been started with the utilities companies?

Answer: No.

10. There have been two sites listed as potential options for ground mounted solar arrays. Are these sites sufficient to handle the entire solar demand from the district?

Answer: No.

11. Has any permitting or interconnection agreements been started for any of the above listed sites?

Answer: The interconnection agreements that have been shared are the only agreements in our possession. No permits for this process have been acquired.

12. The site visit is currently scheduled for the 3rd of January. This provides the teams with 15 days to develop guaranteed maximum pricing for all of the solar components and all of the upgrades associated with the guaranteed savings project. This is an extremely short amount of time to develop accurate competitive pricing. Will you provide an extension of 2 weeks to allow comprehensive pricing to be developed?

Answer: Refer to the updated timeline above.

13. Understanding that the RFP is being driven by the July 1st, 2022 net metering deadline, would the school District be open to splitting the Solar component out from the other scopes of work listed to provide firms more time to develop firm pricing for the energy savings measures at each building?

Answer: MSD Wayne plans to move forward with the RFP as is.

14. Do you have a list of specific equipment replacements or projects that you are expecting to see included as part of this project?

Answer: MSD Wayne has no expectations for specific replacements and is looking forward to any proposals that respondents may make.

18. When is the desired and completion date in order to receive the current Net Metering approval by July 1, 2022?

Answer: The construction must be substantially completed by this date so that they qualify for net metering.

19. Other than JA solar panels and Chint and Fronius inverters are there any other specific equipment requirements?

Answer: No.

20. Can we substitute other Tier 1 solar panels and or inverters for this project?

Answer: Yes, it will be considered.

21. Are there any specific requirements for the DAS?

Answer: No specific requirements and this is at the discretion of the contractor.

22. Can we have access to the interconnection agreements?

Answer: These are attached at the end of this document.

23. Are there 5 interconnection agreements for this project?

Answer: Currently there are five in the possession of the district. The district is open to securing agreements at additional locations.

24. Has any work for this project been completed by other contractors?

Answer: No.

25. From the Addendum dated December 17, all 5 interconnection agreements add up to 700 kW DC across 4 locations and suggest that these are roof mounts or parking awning installations. Please confirm this information.

Answer: The sum is correct. However, the agreements are for alternating current, not direct current.

Generation Facilities Description

The generation facility for Commercial Customer Metropolitan School District of Wayne Township is located at 7202 West McCarty Street, Indianapolis, IN 46241. This level 2 solar distributed generation facility will have a nameplate output rating of 150.0 kW. Finalizing the interconnection agreement and Standard Contract Rider No. 9 (net metering) is dependent upon the Customer.

The site consists of four-hundred seventy-three (473) JA Solar JAM72S10-410MR solar panels connected with three (3) CHINT SCA5-KTL-DO-US-480 248V inverter(s) each rated 50,000 watts max AC inverter output; the inverters are rated at 240 VAC single-phase, 60 Hz. This accumulates for a total inverter output generator capacity of 150.0 kW as listed on the attached application. The inverter data sheet lists the UL 1741 and IEEE 1547 certificates and approvals.

Operating Conditions

The installation shall operate in the automatic mode as governed by the IEEE 1547 standard. The distributed resource (DR) shall operate the point of common coupling at power factor required by the Company for proper operation of the power system when the producer is connected. The distributed resource (DR) shall be notified of any changes needed to the power factor (PF) schedule based on testing and operating experience after commissioning. The primary voltage schedule based on DR operation at 1.0 PF is 480 VAC during all operating times.

The installation shall operate as governed by the IEEE 1547 standard.

The distributed resource (DR) shall operate the point of common coupling at 1.0 power factor (PF unity). The DR shall be notified of any changes needed to the power factor (PF) scheduled based on testing and operating experience after commissioning.

The Customer shall notify Company prior to operating the distributed generation and request a witnessing test as dictated by IEEE 1547 section 5.4 with procedures detailed in footnote 19 stating that the test procedures are commonly provided by the equipment manufacturer(s). The Customer should have a written test procedure prior to the test which should contain check-off boxes for all actions taken during the test. Customer shall provide Company a copy of the test procedure at the conclusion of the test

The Customer or Owner shall compensate Company for labor and materials needed for maintenance of equipment required after interconnection. Standard labor and overtime rates shall apply for work performed. Routine work shall be scheduled at least a month in advance or performed at emergency overtime rates pending availability of crews and equipment.

Network Upgrades Installed by COMPANY but reimbursed and maintained at Owner Expense

COMPANY shall provide and install the following revenue meter at customer expense.

One revenue meter to monitor the inverter and service.

The Customer shall be responsible for all metering and connection costs.

Attachments

Exhibit 1A Interconnection Application including submitted drawings

Exhibit 1B Single Line Drawing

Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications

Exhibit 1E Certificate of Insurance

Exhibit 1F Miscellaneous Attachments

Exhibit 1A Interconnection Application



Application For Interconnection Level 2**- 2MW or Less

Application Date: 11/9/2021

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Applicant Information (Please	e use the tab key between fields.)		
Customer (Applicant) Name: Applicant Address:	Metropolitan School District of Wa 1220 South High School Road	yne Township	
City/State/Zip Code:	Indianapolis, Indiana 46241		
Contact Person:	Fedd Handricks		
Email Address:	wayne.k12.in.us	Phone: 317 417 2	804
Generation Site Information			
Service (Site) Address: City/State/Zip Code:	Operations Center, 7202 West Mc Indianapolis, IN 46241	Carty Street	
Phone Number:	Lat/Long: 39.75502, -86.28713		
Map-Pole Number: Meter No Developer Information			
Project Developer Name:	taddishadrishawayne.k12.in.u	Email	Address:
Project Developer Address:	-5015 SHALLSHAM BLOOP, MANAGED	His IN 46241 Pho	N ej
Please provide names and con	tact information for other Contractor	and Engineering firm	ns involved
in the design and installation of		3 3	
Name of the last o	initial Color		
	1		
STEROL 1972 Merch Samper	Company Comp		
Interconnection Information			
Total Generating Capacity Out	out of Customer Facility (AC Power a	and Voltage): 150kW	V, 480V
Type of Generator: Inverter	r-Based 🔲 Synchronous 🔲 Indu	uction	
Power Source: Solar \ ⊠ □	Wind Diesel-fueled Reciprocatin	g Engine	
☐ Gas-Fueled Recipro ☐ Other (Specify)	ocating Engine Gas Turbine C] Microturbine	
* Certified as defined in 170 IA			

Application For



Interconnection

Is the Equipment "Certified" * as defined by 170 Indiana Administrative Code ("IAC") 4-4.3-5 Yes No Indicate all possible operating modes for this generator facility: Emergency / Standby - Operated when Indianapolis Power & Light Company service is not available. Paralleling is for short durations. Peak Shaving - Operated during peak demand periods. Paralleling is for extended times. Base Load Power - Operated continuously at a predetermined output. Paralleling is continuous. Cogeneration - Operated primarily to produce thermal energy. Paralleling is extended or continuous. Renewable non-dispatched - Operated in response to an available renewable solar or wind. Paralleling is for extended times. resource such as Other - Describe: Indicate the intended use of power generated from the proposed facility, subject to all applicable regulatory approvals. ☐ Sale of power to IPL by Rate CGS. Sale of power to IPL by Rate REP. **Net Metering** Internal Usage only Demand Response Resource Other Explain Level of Interconnection Review Requested: Level 2** for nameplate rating 2MW or less

For this application to be considered complete, adequate documentation and information must be submitted that will allow Indianapolis Power & Light Company ("IPL") to determine the impact of the generation facilities on IPL's electric system and to confirm compliance by Customer with the provisions of 170 IAC 4-4.3 and IPL's requirements. Typically this should include the following for Level 2 applications:

1. Single-line diagram of the customer's system showing all electrical equipment from the generator to the point of interconnection with IPL's distribution system, including

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

Application For Level 2**- 2MW or Less



Interconnection

generators, transformers, switchgear, switches, breakers, fuses, voltage transformers, and current transformers.

- 2. Control drawings for relays and breakers.
- 3. Site Plans showing the physical location of major equipment.
- Relevant ratings of equipment. Transformer information should include capacity ratings, voltage ratings, winding arrangements, and impedance.
- If protective relays are used, settings applicable to the interconnection protection. If programmable relays are used, a description of how the relay is programmed to operate as applicable to interconnection protection.
- 6. For Certified* equipment, documentation confirming that a nationally recognized testing and certification laboratory has listed the equipment.
- 7. A description of how the generator system will be operated including all modes of operation.
- 8. For inverters, the manufacturer name, model number, and AC power rating, Operating manual or link to manufacture's web site containing such manual.
- For synchronous generators, manufacturer and model number, nameplate ratings, and impedance data (Xd, X'd, & X"d).
- For induction generators, manufacturer and model number, nameplate ratings, and locked rotor current.

This application is subject to further consideration and study by IPL and the possible need for additional documentation and information from Customer.

Fees

Level 2 Initial Review \$50 plus, \$1/kW of nameplate capacity.

Additional Review¹ Non-binding, good faith cost estimate provided to customer.

Additional Review may be elected by the customer for the case where the facility failed to meet one or more of the applicable requirements and the Initial Review indicated that additional review may enable the Company to approve the application with minor modifications. The applicant cost to conduct the Additional Review is in addition to the initial Review Fee. Actual costs will be billed or credited to the applicant following completion of the Additional review and minor modifications.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

Application For Level 2**- 2MW or Less



Interconnection

Insurance Requirements

The Applicant shall provide evidence of homeowners, commercial or other insurance that provides coverage in the amount of at least \$2 million for Comprehensive General Liability and Contractual Liability.

☑ Evidence of Insurance coverage provided with Application

Reference Documents

170 IAC Customer generator interconnection standards are located at the following web site. http://www.in.gov/legislative/iac/T01700/A00040.PDF?

Submittal of Fees, Application and Documentation

Fees - Payment for the Initial Review shall be sent to IPL Distributed Generation Interconnections, Attn: Sonya Kunkel, 1230 W Morris St., Indianapolis, IN 46221. Please make checks payable to Indianapolis Power & Light Co. and include the customer's name and address on the check.

Application and Documentation - Please send the application and all documentation electronically to ipl.interconnection@aes.com using the standard e-mail formatting. All paper copies of documentation should be scanned electronically prior to submittal to IPL.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

Exhibit 1B Single Line Drawing

PV RISER DIAGRAM

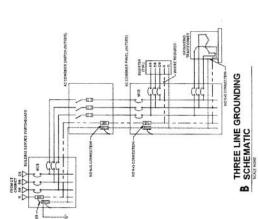
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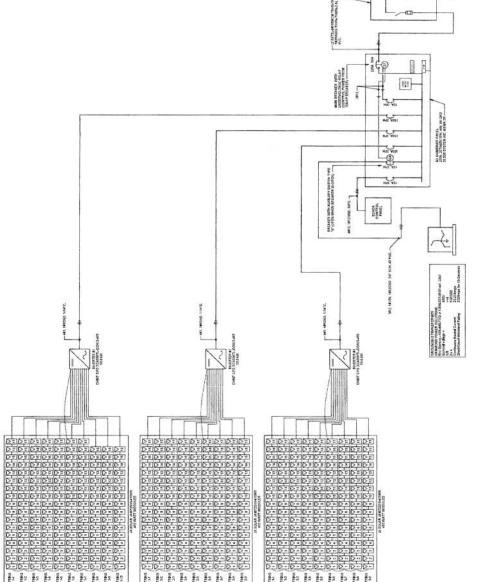
INDIANAPOLIS, INDIANA 46241 OPERATIONS CENTER
T202 WEST MCCARTY STREET

МБО WAYNE TOWNSHIP SCHOOLS ENERGY REDUCTION PROJECTS

PV SYSTEM OVERVIEW







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A ELECTRICAL

Exhibit 1C Site Plan Drawing





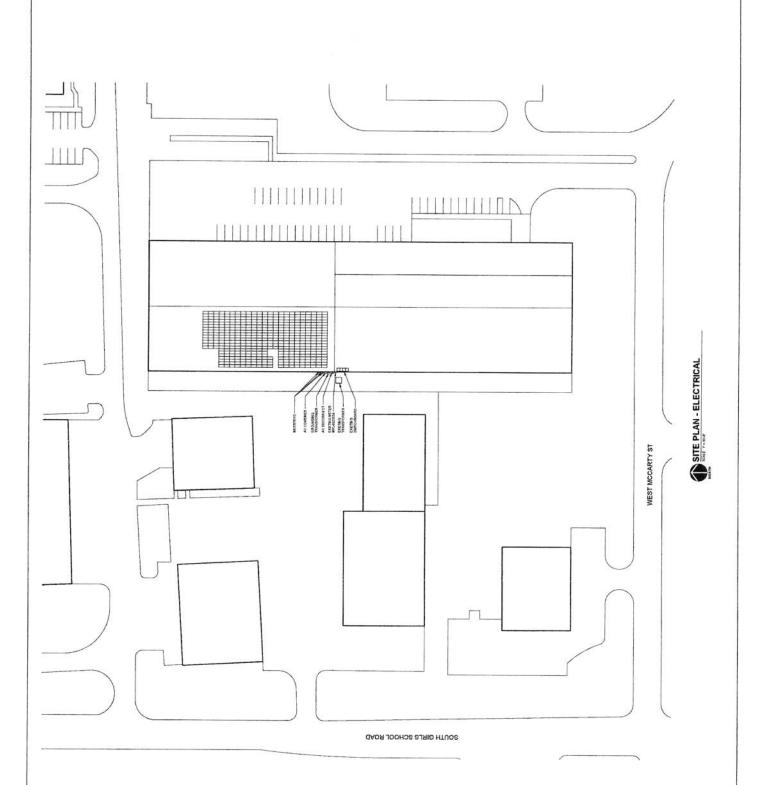


Exhibit 1D Inverter Specifications



25kW 208V, 1000Vdc String Inverters for North America

The 25kW (25kVA) CPS three phase string inverters are designed for rooftop and carport applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 97.0% peak and 96.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 25KTL product ships with the Rapid Shutdown wirebox, fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown wire-box enables PVRSS certified module-level rapid shutdown when used with the APS RSD-S-PLC-A products. The CPS Flex Gateway enables monitoring, controls and remote product upgrades.

Key Features

- NEC 2017/2020 PVRSS Certified Rapid Shutdown
- NEC 2017 compliant & UL listed Arc-Fault circuit protection
- 15-90° Mounting orientation for low profile roof installs
- Optional Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 3 MPPT's with 2 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL1741 SA Certified to CA Rule 21, including SA14 FW and SA15 VW
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years
- Generous 1.8 DC/AC Inverter Load Ratio



CPS SCA25KTL-DO/US-208



25KTL Rapid Shutdown Wire-box







Model Name CPS SCA25KTL-DO/US-208 DC Input Max. PV Power 45kW (17kW per MPPT) Max. DC Input Voltage 1000Vdc Operating DC Input Voltage Range 200-950Vdc Start-up DC Input Voltage / Power 330V / 80W Number of MPP Trackers MPPT Voltage Range @ PF>0.99 480-850Vdc Max. PV Short-Circuit Current (Isc x 1.25) 135A (45A per MPPT) Number of DC Inputs 6 inputs, 2 per MPPT DC Disconnection Type Load-rated DC switch DC Surge Protection Type II MOV, 2800V_C, 20kA I_{TM} (8/20...S) **AC Output** Rated AC Output Power @ PF>0.99 25kW Max. AC Apparent Power (Selectable) 25kVA Rated Output Voltage 208Vac Output Voltage Range¹ 183 - 228Vac **Grid Connection Type** 3Φ / PE / N (Neutral optional) Max. AC Output Current @208Vac 69.5A Rated Output Frequency 60Hz Output Frequency Range¹ 57 - 63Hz Power Factor >0.99 (±0.8 adjustable) Current THD @ Rated Load <3% Max. Fault Current Contribution (1 Cycle RMS) 64.1A (0.92 PU) Max. OCPD Rating 125A AC Disconnection Type Load-break rated AC switch AC Surge Protection Type II MOV, 1240V_C, 15kA I_{TM} (8/20...S) System and Performance Topology Transformerless Max. Efficiency 97.0% **CEC Efficiency** 96.5% Stand-by / Night Consumption <3W Environment **Enclosure Protection Degree NEMA Type 4X** Cooling Method Variable speed cooling fans Operating Temperature Range² -22°F to +140°F / - 30°C to +60°C Non-Operating Temperature Range³ No low temp minimum to +158°F / +70°C maximum Operating Humidity 0 to 100% Operating Altitude 13,123.4ft / 4000m (derating from 9842.5ft / 3000m) **Audible Noise** <60dBA @ 1m and 25°C **Display and Communication** User Interface and Display LCD+LED **Inverter Monitoring** SunSpec, Modbus RS485 Site Level Monitoring CPS Flex Gateway (1 per 32 inverters) Modbus Data Mapping CPS Remote Diagnostics / FW Upgrade Functions Standard / (with Flex Gateway) Mechanical Dimensions (HxWxD) 39.4 x 23.6 x 10.24in. (1000 x 600 x 260mm) Weight Inverter: 123.5lbs/56kg; Wire-box: 33lbs/15kg Mounting / Installation Angle⁴ 15 to 90 degrees from horizontal (vertical or angled) AC Termination M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL, Lugs not supplied) DC Termination⁵ Screw Clamp, Neg. Busbar⁵ Wire range: #14 - #6AWG CU Fused String Inputs (2 per MPPT)⁶ 20A fuses provided (Fuse values up to 30A acceptable) Safety Certifications and Standards UL1741SA-2016, UL1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE1547a-2014, FCC PART15 Selectable Grid Standard IEEE 1547, CA Rule 21, ISO-NE, HECO Smart-Grid Features

Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt

Extended Terms 15 and 20 years

Warranty Standard 10 years

¹⁾ The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.

²⁾ Active Power Derating begins, at 45°C when PF=1 and MPPT≥Vmin, and at 50°C when PF=1 and MPPT V ≥ 700Vdc.
3) See user manual for further requirements regarding non-operating conditions.

⁴⁾ Shade Cover accessory required for installation angles of 75 degrees or less.
5) RSD wire-box only includes fuses/fuseholders on the positive polarity, compliant with NEC 2017, 690.9 (C).

⁶⁾ Fuse values above 20A have additional spacing requirements or require the use of the Y-Comb Terminal Block. See user manual for details,



Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

Project:

80048389

Date Issued:

2020-08-19

Issued to:

SHANGHAI CHINT POWER SYSTEMS CO.,LTD

3255 Si Xian Rd Songjiang District, Shanghai 201614

CHINA

Attention: Huan Cai

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Jason Lei Jason Lei

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Transformerless Grid Support Utility Interactive Inverter, Models CPS SCA50KTL-DO/US-480, CPS SCA60KTL-DO/US-480 and CPS SCA25KTL-DO/US-208, permanently connected.

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.



Certificate:

70128088

Project:

80048389

Master Contract: 255045

Date Issued: 2020-08-19

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01

General Use Power Supplies

*UL 1741

Inverters, Converters, Controllers and Interconnection System

Equipment for Use With Distributed Energy Resources (Second Edition, Revision September 7, 2016)

UL1741 CRD

Non-Isolated EPS Interactive PV Inverters Rated Less Than 30Kva

(Dated April 26, 2010)

UL1741 CRD

Grid Support Utility Interactive Interoperability Optional Functions:

Prevent Enter Service and Limit Active Power (CA Rule 21, Phase 3, functions 2 and 3) (Dated October 22,

2019)

CSA TIL M-07

Interim Certification Requirements for Photovoltaic (PV) DC Arc-Fault

Protection (Issue Number 1, March 11, 2013)

UL 1699B

Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated

August 22, 2018)

*Note: Conformity to UL 1741 (Second Edition, Revision September 7, 2016) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547a-2014, IEEE 1547.1-2005(R2011), IEEE 1547.1a-2015, California Rule 21 and Supplement SA 8-18.



Supplement to Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80048389	2020-08-19	Update report 70128088 to add new model CPS SCA25KTL-DO/US-208, change the Maximum continuous output current for CPS SCA50/60KTL-DO/US-480 and meet the requirement for Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated August 22, 2018).
80046608	2020-06-17	Update to report 70128088 to include UL1741CRD SA17 - 18 requirements.
70218379	2019-03-15	Update report 70128088 to include alternate components, modification and the software version update.
70203151	2018-11-29	Update report 70128088 to include alternate components and modification to markings.
70128097	2017-07-06	Update report 70128088 to include grid support function to meet California
		Rule 21 requirements.
70128088	2017-07-06	Grid Support Utility Interactive Inverter, Model CPS SCA50KTL-DO/US-
		480 and CPS SCA60KTL-DO/US-480. (C/US)

Exhibit 1E Certificate of Insurance

Client#: 35624 MSDWAYN

ACORD.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/16/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

	his certificate does not confer any rigi	nts to the	e certificate holder in lieu o			nt(s).				
PRODUCER				CONTACT Jennifer Collins						
EPIC Insurance Midwest					PHONE (A/C, No, Ext): 317-706-9828 FAX (A/C, No):					
	D. Box 80159						icbrokers.com			
ind	lianapolis, IN 46280			7,527,2			FORDING COVERAGE		NAIC#	
				INSURE	RA: The Neti		rance Company		24171	
INSL	JRED					Insurance Co			22659	
	MSD of Wayne Township			INSURE	R c . Peerless	Insurance Co	ompany		24198	
	Marion County Indiana			INSURE						
	1220 South High School R	load		INSURER E :						
	Indianapolis, IN 46241			INSURE						
co	VERAGES CER	TIFICATI	E NUMBER:	INCOME			REVISION NUMBER:			
C	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RE ERTIFICATE MAY BE ISSUED OR MAY FXCLUSIONS AND CONDITIONS OF SUCH	QUIREME PERTAIN,	NT, TERM OR CONDITION O THE INSURANCE AFFORDE	F ANY D BY T	CONTRACT OF	THE INSURED R OTHER DOO DESCRIBED I	NAMED ABOVE FOR THE CUMENT WITH RESPECT HEREIN IS SUBJECT TO	TO WH	ICH THIS	
NSR TR		ADDL SUB INSR WVI				POLICY EXP (MM/DD/YYYY)	LIMIT	s		
A	X COMMERCIAL GENERAL LIABILITY	X	CBP8488211				EACH OCCURRENCE		0,000	
3.5	CLAIMS-MADE X OCCUR		021040211		00/01/2021	00/01/2022	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 500,		
							MED EXP (Any one person)	\$15,0	00	
							PERSONAL & ADV INJURY	\$1,00	0,000	
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$2,00	0,000	
	POLICY PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$2,00	0,000	
	OTHER:							\$		
С	AUTOMOBILE LIABILITY		BA9853550		06/01/2021	06/01/2022	COMBINED SINGLE LIMIT (Ea accident)	\$1,00	0,000	
	X ANY AUTO						BODILY INJURY (Per person)	\$		
	OWNED SCHEDULED AUTOS						BODILY INJURY (Per accident)	\$		
	X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$		
								\$		
В	X UMBRELLA LIAB X OCCUR		CU8521081	06/01/2021		06/01/2022	EACH OCCURRENCE	\$10,0	00.000	
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	\$10,0	00,000	
	DED X RETENTION \$10000							\$		
WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE				1			PER OTH- STATUTE ER			
		N/A			E.L. EACH ACCIDENT		\$			
	(Mandatory in NH)	N/A	1/A		E.L. DISEASE - EA EMPLOYE		E.L. DISEASE - EA EMPLOYEE	\$		
If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT \$			
A Leased/Rented Eq.			CBP8488211		06/01/2021	06/01/2022	\$25,000			
	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (ACOR	RD 101, Additional Remarks Schedu			re space is requi	red)			
EF	RTIFICATE HOLDER			CANC	ELLATION					
	AES Indiana 2102 N. Illinois St. Indianapolis, IN 46202			THE	EXPIRATION	DATE THE	SCRIBED POLICIES BE CA REOF, NOTICE WILL BI LICY PROVISIONS.			

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

Exhibit 1F Miscellaneous Attachments

Generation Facilities Description

The generation facility for Commercial Customer Metropolitan School District of Wayne Township is located at 6301 W. Morris Street, Indianapolis, IN 46241 (Admin. Bldg. 1B). This level 2 solar distributed generation facility will have a nameplate output rating of 86.0 kW. Finalizing the interconnection agreement and Standard Contract Rider No. 9 (net metering) is dependent upon the Customer.

The site consists of two-hundred seventy (270) JA SOLAR JAM72S10-410MR solar panels connected with one (1) CHINT SCA36KTL-DO-US-480 480V inverter(s) each rated 36,000 watts and one (1) CHINT SCA50KTL-DO-US-480 each rated 50,000 watts max AC inverter output; the inverters are rated at 240 VAC single-phase, 60 Hz. This accumulates for a total inverter output generator capacity of 86.0 kW as listed on the attached application. The inverter data sheet lists the UL 1741 and IEEE 1547 certificates and approvals.

Operating Conditions

The installation shall operate in the automatic mode as governed by the IEEE 1547 standard. The distributed resource (DR) shall operate the point of common coupling at power factor required by the Company for proper operation of the power system when the producer is connected. The distributed resource (DR) shall be notified of any changes needed to the power factor (PF) schedule based on testing and operating experience after commissioning. The primary voltage schedule based on DR operation at 1.0 PF is 208 VAC during all operating times.

The installation shall operate as governed by the IEEE 1547 standard.

The distributed resource (DR) shall operate the point of common coupling at 1.0 power factor (PF unity). The DR shall be notified of any changes needed to the power factor (PF) scheduled based on testing and operating experience after commissioning.

The Customer shall notify Company prior to operating the distributed generation and request a witnessing test as dictated by IEEE 1547 section 5.4 with procedures detailed in footnote 19 stating that the test procedures are commonly provided by the equipment manufacturer(s). The Customer should have a written test procedure prior to the test which should contain check-off boxes for all actions taken during the test. Customer shall provide Company a copy of the test procedure at the conclusion of the test

The Customer or Owner shall compensate Company for labor and materials needed for maintenance of equipment required after interconnection. Standard labor and overtime rates shall apply for work performed. Routine work shall be scheduled at least a month in advance or performed at emergency overtime rates pending availability of crews and equipment.

Network Upgrades Installed by COMPANY but reimbursed and maintained at Owner Expense

COMPANY shall provide and install the following revenue meter at customer expense.

One revenue meter to monitor the inverter and service.

The Customer shall be responsible for all metering and connection costs.

Attachments

Exhibit 1A Interconnection Application including submitted drawings

Exhibit 1B Single Line Drawing

Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications

Exhibit 1E Certificate of Insurance

Exhibit 1F Miscellaneous Attachments

Exhibit 1A Interconnection Application



Application For Interconnection Level 2**- 2MW or Less

Application Date: 11/16/2021

Applicant Information (Please	e use the tab key between fields.)
Customer (Applicant) Name:	Metropolitan School District of Wayne Township
Applicant Address:	1220 South High School Road
City/State/Zip Code:	Indianapolis, Indiana 46241
Contact Person:	- The state of the
Email Address:	wayne.k12.in.us Phone:
Generation Site Information	
Service (Site) Address:	Administration Service 1B, 6301 W.Morris St.
City/State/Zip Code:	Indianapolis, IN 46241
Phone Number:	Lat/Long: 39.74974, -86.27042
Map-Pole Number:	Meter No: IPL-0020560
Developer Information	Map-Pole: 553-B/339; JLS, 11/29/2021
Project Developer Name:	Email Address
CONTRACTOR OF STREET	
Project Developer Address:	Phone
Please provide names and o	contact information for other Contractor and Engineering firms
involved in the design and insta	
Market - Market of	and the same of th
Calculation in the Andrews of	
11484 1012 and supple	
Interconnection Information	
Total Generating Capacity Outp	out of Customer Facility (AC Power and Voltage): 86.0kW, 480V
Type of Generator: Inverter	-Based Synchronous Induction
Power Source: ⊠ Solar □ W	/ind ☐ Diesel-fueled Reciprocating Engine
named and walk of company to	ocating Engine
Other (Specify)	
Is the Equipment "Certified" * as	s defined by 170 Indiana Administrative Code ("IAC") 4-4.3-5
⊠ Yes □ No	,
Indicate all possible operating n	nodes for this generator facility:
* Certified as defined in 170 IAC	2.4-4.3-5
** Level 2 as defined in 170 IAC	



Application For Interconnection

Level 2**- 2MW or Less

For this application to be considered complete, adequate documentation and information must be submitted that will allow Indianapolis Power & Light Company ("IPL") to determine the impact of the generation facilities on IPL's electric system and to confirm compliance by Customer with the provisions of 170 IAC 4-4.3 and IPL's requirements. Typically this should include the following for Level 2 applications:

- Single-line diagram of the customer's system showing all electrical equipment from the generator to the point of interconnection with IPL's distribution system, including generators, transformers, switchgear, switches, breakers, fuses, voltage transformers, and current transformers.
- 2. Control drawings for relays and breakers.
- 3. Site Plans showing the physical location of major equipment.
- 4. Relevant ratings of equipment. Transformer information should include capacity ratings, voltage ratings, winding arrangements, and impedance.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

- If protective relays are used, settings applicable to the interconnection protection. If programmable relays are used, a description of how the relay is programmed to operate as applicable to interconnection protection.
- 6. For Certified* equipment, documentation confirming that a nationally recognized testing and certification laboratory has listed the equipment.
- A description of how the generator system will be operated including all modes of operation.
- 8. For inverters, the manufacturer name, model number, and AC power rating, Operating manual or link to manufacture's web site containing such manual.
- 9. For synchronous generators, manufacturer and model number, nameplate ratings, and impedance data (Xd, X'd, & X"d).
- For induction generators, manufacturer and model number, nameplate ratings, and locked rotor current.

This application is subject to further consideration and study by IPL and the possible need for additional documentation and information from Customer.

Fees

- Level 2 Initial Review \$50 plus, \$1/kW of nameplate capacity.

 Additional Review¹ Non-binding, good faith cost estimate provided to customer.
 - Additional Review may be elected by the customer for the case where the facility failed to meet one or more of the applicable requirements and the Initial Review indicated that additional review may enable the Company to approve the application with minor modifications. The applicant cost to conduct the Additional Review is in addition to the initial Review Fee. Actual costs will be billed or credited to the applicant following completion of the Additional review and minor modifications.

Insurance Requirements

The Applicant shall provide evidence of homeowners, commercial or other insurance that provides coverage in the amount of at least \$2 million for Comprehensive General Liability and Contractual Liability.

⊠ Evidence of Insurance coverage provided with Application

Reference Documents

170 IAC Customer generator interconnection standards are located at the following web site. http://www.in.gov/legislative/iac/T01700/A00040.PDF?

Submittal of Fees, Application and Documentation

Fees - Payment for the Initial Review shall be sent to IPL Distributed Generation Interconnections, Attn: Sonya Kunkel, 1230 W Morris St., Indianapolis, IN 46221. Please make checks payable to Indianapolis Power & Light Co. and include the customer's name and address on the check.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)



Application and Documentation - Please send the application and all documentation electronically to ipl.interconnection@aes.com using the standard e-mail formatting. All paper copies of documentation should be scanned electronically prior to submittal to IPL.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

Exhibit 1B Single Line Drawing

ENERGY REDUCTION PROJECTS MSD WAYNE TOWNSHIP SCHOOLS



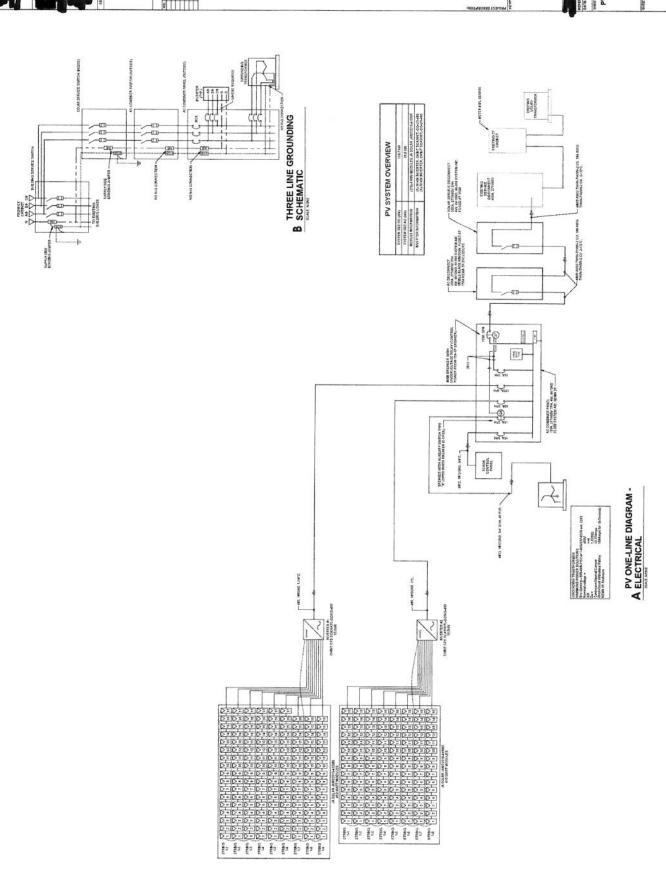


Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications

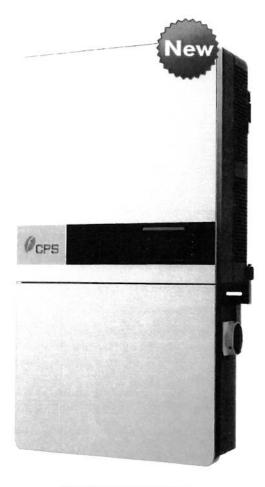


25kW 208V, 1000Vdc String Inverters for North America

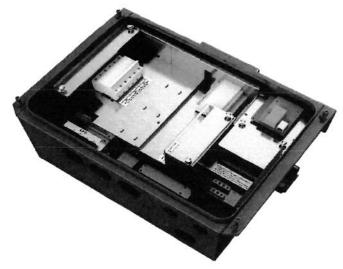
The 25kW (25kVA) CPS three phase string inverters are designed for rooftop and carport applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 97.0% peak and 96.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 25KTL product ships with the Rapid Shutdown wirebox, fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown wire-box enables PVRSS certified module-level rapid shutdown when used with the APS RSD-S-PLC-A products. The CPS Flex Gateway enables monitoring, controls and remote product upgrades.

Key Features

- NEC 2017/2020 PVRSS Certified Rapid Shutdown
- NEC 2017 compliant & UL listed Arc-Fault circuit protection
- 15-90° Mounting orientation for low profile roof installs
- Optional Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 3 MPPT's with 2 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL1741 SA Certified to CA Rule 21, including SA14 FW and SA15 VW
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years
- Generous 1.8 DC/AC Inverter Load Ratio



CPS SCA25KTL-DO/US-208



25KTL Rapid Shutdown Wire-box







Model Name

DC Input

Max. PV Power

Max. DC Input Voltage

Operating DC Input Voltage Range

Start-up DC Input Voltage / Power

Number of MPP Trackers

MPPT Voltage Range @ PF>0.99

Max. PV Short-Circuit Current (Isc x 1.25)

Number of DC Inputs

DC Disconnection Type

DC Surge Protection

AC Output

Rated AC Output Power @ PF>0.99

Max. AC Apparent Power (Selectable)

Rated Output Voltage

Output Voltage Range¹

Grid Connection Type

Max. AC Output Current @208Vac

Rated Output Frequency

Output Frequency Range¹

Power Factor

Current THD @ Rated Load

Max. Fault Current Contribution (1 Cycle RMS)

Max. OCPD Rating

AC Disconnection Type

AC Surge Protection

System and Performance

Topology

Max. Efficiency

CEC Efficiency

Stand-by / Night Consumption

Environment

Enclosure Protection Degree

Cooling Method

Operating Temperature Range²

Non-Operating Temperature Range³

Operating Humidity

Operating Altitude

Audible Noise

Display and Communication

User Interface and Display

Inverter Monitoring

Site Level Monitoring

Modbus Data Mapping

Remote Diagnostics / FW Upgrade Functions

Mechanical

Dimensions (HxWxD)

Weight

Mounting / Installation Angle⁴

AC Termination

DC Termination⁵

Fused String Inputs (2 per MPPT)⁶

Certifications and Standards

Selectable Grid Standard

Smart-Grid Features

Standard

CPS SCA25KTL-DO/US-208

45kW (17kW per MPPT)

1000Vdc

200-950Vdc

330V / 80W

480-850Vdc

135A (45A per MPPT)

6 inputs, 2 per MPPT

Load-rated DC switch

Type II MOV, 2800V_C, 20kA I_{TM} (8/20...S)

25kW

25kVA

208Vac

183 - 228Vac

3Φ / PE / N (Neutral optional)

69.5A

60Hz

57 - 63Hz

>0.99 (±0.8 adjustable)

<3%

64.1A (0.92 PU)

125A

Load-break rated AC switch

Type II MOV, 1240V_C, 15kA I_{TM} (8/20...S)

Transformeriess

97.0%

96 5% <3W

NEMA Type 4X

Variable speed cooling fans

-22°F to +140°F / - 30°C to +60°C

No low temp minimum to +158°F / +70°C maximum

0 to 100%

13,123.4ft / 4000m (derating from 9842.5ft / 3000m)

<60dBA @ 1m and 25°C

LCD+LED

SunSpec, Modbus RS485

CPS Flex Gateway (1 per 32 inverters)

CPS

Standard / (with Flex Gateway)

39.4 x 23.6 x 10.24in. (1000 x 600 x 260mm)

Inverter: 123.5lbs/56kg; Wire-box: 33lbs/15kg

15 to 90 degrees from horizontal (vertical or angled)

M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL, Lugs not supplied)

Screw Clamp, Neg. Busbar⁵ Wire range: #14 - #6AWG CU 20A fuses provided (Fuse values up to 30A acceptable)

UL1741SA-2016, UL1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE1547a-2014, FCC PART15 IEEE 1547, CA Rule 21, ISO-NE, HECO

Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt

Warranty

Extended Terms

10 years 15 and 20 years

1) The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.

- Active Power Derating begins; at 45°C when PF=1 and MPPT≥Vmin, and at 50°C when PF=1 and MPPT V ≥ 700Vdc.
- 3) See user manual for further requirements regarding non-operating conditions
- 4) Shade Cover accessory required for installation angles of 75 degrees or less.
- 5) RSD wire-box only includes fuses/fuseholders on the positive polarity, compliant with NEC 2017, 690.9 (C).
 6) Fuse values above 20A have additional spacing requirements or require the use of the Y-Comb Terminal Block. See user manual for details.



Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

Project:

80048389

Date Issued:

2020-08-19

Issued to:

SHANGHAI CHINT POWER SYSTEMS CO.,LTD

3255 Si Xian Rd Songjiang District, Shanghai 201614

CHINA

Attention: Huan Cai

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Jason Lei Jason Lei

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Transformerless Grid Support Utility Interactive Inverter, Models CPS SCA50KTL-DO/US-480, CPS SCA60KTL-DO/US-480 and CPS SCA25KTL-DO/US-208, permanently connected.

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.



Certificate: 70128088

Project: 80048389

Master Contract: 255045

Date Issued: 2020-08-19

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01

General Use Power Supplies

*UL 1741

Inverters, Converters, Controllers and Interconnection System

Equipment for Use With Distributed Energy Resources (Second Edition, Revision September 7, 2016)

UL1741 CRD

Non-Isolated EPS Interactive PV Inverters Rated Less Than 30Kva

(Dated April 26, 2010)

UL1741 CRD

Grid Support Utility Interactive Interoperability Optional Functions:

Prevent Enter Service and Limit Active Power (CA Rule 21, Phase 3, functions 2 and 3) (Dated October 22,

2019)

CSA TIL M-07

Interim Certification Requirements for Photovoltaic (PV) DC Arc-Fault

Protection (Issue Number 1, March 11, 2013)

UL 1699B

Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated

August 22, 2018)

*Note: Conformity to UL 1741 (Second Edition, Revision September 7, 2016) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547a-2014, IEEE 1547.1-2005(R2011), IEEE 1547.1a-2015, California Rule 21 and Supplement SA 8-18.



Supplement to Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80048389	2020-08-19	Update report 70128088 to add new model CPS SCA25KTL-DO/US-208, change the Maximum continuous output current for CPS SCA50/60KTL-DO/US-480 and meet the requirement for Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated August 22, 2018).
80046608	2020-06-17	Update to report 70128088 to include UL1741CRD SA17 - 18 requirements.
70218379	2019-03-15	Update report 70128088 to include alternate components, modification and the software version update.
70203151	2018-11-29	Update report 70128088 to include alternate components and modification to markings.
70128097	2017-07-06	Update report 70128088 to include grid support function to meet California Rule 21 requirements.
70128088	2017-07-06	Grid Support Utility Interactive Inverter, Model CPS SCA50KTL-DO/US-480 and CPS SCA60KTL-DO/US-480. (C/US)

Exhibit 1E Certificate of Insurance

Client#: 35624 **MSDWAYN**

ACORD...

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/16/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on

PRODUCER EPIC Insurance Midwest	holder in lieu of such endorsement(s). CONTACT Jennifer Collins					
P.O. Box 80159	PHONE (A/C, No, Ext): 317-706-9828					
Indianapolis, IN 46280	(A/C, No, Ext): 511-700-9028 (A/C, No): E-MAIL ADDRESS: jennifer.collins@epicbrokers.com					
	INSURER(S) AFFORDING	NAIC#				
	INSURER A: The Netherlands Insurance Co	24171				
MSD of Wayne Township	INSURER B : Indiana Insurance Company	22659				
Marion County Indiana	INSURER C : Peerless Insurance Company	24198				
1220 South High School Road	INSURER D :	INSURER D:				
Indianapolis, IN 46241	INSURER E :					
COVERAGES CERTIFICATE NUMBER	INSURER F:					

REVISION NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. ADDL SUBR TYPE OF INSURANCE POLICY EFF POLICY EXP (MM/DD/YYYY) POLICY NUMBER LIMITS X COMMERCIAL GENERAL LIABILITY CBP8488211 06/01/2021 06/01/2022 EACH OCCURRENCE \$1,000,000 CLAIMS-MADE X OCCUR DAMAGE TO RENTED PREMISES (Ea occurrence) \$500,000 MED EXP (Any one person) \$15,000

PERSONAL & ADV INJURY \$1,000,000 GEN'L AGGREGATE LIMIT APPLIES PER: GENERAL AGGREGATE \$2,000,000 POLICY PRODUCTS - COMP/OP AGG \$2,000,000 OTHER: **AUTOMOBILE LIABILITY** 06/01/2021 06/01/2022 COMBINED SINGLE LIMIT (Ea accident) BA9853550 \$1,000,000 ANY AUTO BODILY INJURY (Per person) SCHEDULED OWNED AUTOS ONLY AUTOS NON-OWNED AUTOS ONLY **BODILY INJURY (Per accident)** \$ HIRED AUTOS ONLY PROPERTY DAMAGE (Per accident) X X UMBRELLA LIAB X OCCUR CU8521081 06/01/2021 06/01/2022 EACH OCCURRENCE \$10,000,000 **EXCESS LIAB** AGGREGATE \$10,000,000 DED X RETENTION \$10000 WORKERS COMPENSATION OTH-PER STATUTE ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? E.L. EACH ACCIDENT (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - EA EMPLOYEE \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CBP8488211

CERTIFICATE HOLDER	CANCELLATION				
AES Indiana 2102 N. Illinois St. Indianapolis, IN 46202	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.				
	AUTHORIZED REPRESENTATIVE				

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E.L. DISEASE - POLICY LIMIT | \$

06/01/2021 06/01/2022 \$25,000

Leased/Rented Eq.

Exhibit 1F Miscellaneous Attachments

Generation Facilities Description

The generation facility for Commercial Customer Metropolitan School District of Wayne Township is located at 6301 West Morris Street, Indianapolis, IN 46241 (Admin. Bldg. 1A). This level 2 solar distributed generation facility will have a nameplate output rating of 144.0 kW. Finalizing the interconnection agreement and Standard Contract Rider No. 9 (net metering) is dependent upon the Customer.

The site consists of four-hundred sixty-eight (468) JA SOLAR JAM72S10-410MR solar panels connected with four (4) CHINT SCA36kTL-DO-US-480 480V inverter(s) each rated 36,000 watts max AC inverter output; the inverters are rated at 480 VAC single-phase, 60 Hz. This accumulates for a total inverter output generator capacity of 144.0 kW as listed on the attached application. The inverter data sheet lists the UL 1741 and IEEE 1547 certificates and approvals.

Operating Conditions

The installation shall operate in the automatic mode as governed by the IEEE 1547 standard. The distributed resource (DR) shall operate the point of common coupling at power factor required by the Company for proper operation of the power system when the producer is connected. The distributed resource (DR) shall be notified of any changes needed to the power factor (PF) schedule based on testing and operating experience after commissioning. The primary voltage schedule based on DR operation at 1.0 PF is 480 VAC during all operating times.

The installation shall operate as governed by the IEEE 1547 standard.

The distributed resource (DR) shall operate the point of common coupling at 1.0 power factor (PF unity). The DR shall be notified of any changes needed to the power factor (PF) scheduled based on testing and operating experience after commissioning.

The Customer shall notify Company prior to operating the distributed generation and request a witnessing test as dictated by IEEE 1547 section 5.4 with procedures detailed in footnote 19 stating that the test procedures are commonly provided by the equipment manufacturer(s). The Customer should have a written test procedure prior to the test which should contain check-off boxes for all actions taken during the test. Customer shall provide Company a copy of the test procedure at the conclusion of the test

The Customer or Owner shall compensate Company for labor and materials needed for maintenance of equipment required after interconnection. Standard labor and overtime rates shall apply for work performed. Routine work shall be scheduled at least a month in advance or performed at emergency overtime rates pending availability of crews and equipment.

Network Upgrades Installed by COMPANY but reimbursed and maintained at Owner Expense

COMPANY shall provide and install the following revenue meter at customer expense.

One revenue meter to monitor the inverter and service.

The Customer shall be responsible for all metering and connection costs.

Attachments

Exhibit 1A Interconnection Application including submitted drawings

Exhibit 1B Single Line Drawing

Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications

Exhibit 1E Certificate of Insurance

Exhibit 1F Miscellaneous Attachments

Exhibit 1A Interconnection Application



Application For Interconnection Level 2**- 2MW or Less

Application Date: 11/16/2021

Applicant Information (Please	e use the tab key between fields.)						
Customer (Applicant) Name:	Metropolitan School District of Wayne Township						
Applicant Address:	1220 South High School Road						
City/State/Zip Code:	Indianapolis, Indiana 46241						
Contact Person:	TOUR HOUSE						
Email Address:	ayne.k12.in.us	Phone:					
Generation Site Information							
Service (Site) Address:	Administration Service 1A, 6301 W.I	Morris St.					
City/State/Zip Code:	Indianapolis, IN 46241						
Phone Number:	Lat/Long: 39.74974, -86.27	042					
Map-Pole Number:	Meter No: IPL-1162913						
Developer Information	Map-Pole: 553-B/339; JLS, 11/29/2	021					
Project Developer Name:	Arasii Ifabibi Sour	Email	Address:				
The billion of the control of the co							
Project Developer Address:	5915 Stockberger Place, Indiana	polis, IN 4624T	Phone:				
317-370-42133							
Please provide names and o	contact information for other Contra	ector and Engine	ering firms				
involved in the design and insta	allation of the general facilities:						
Auron Schipp, R.E. Discussed	The state of the s						
750 nt. Capitol Ave, Indianapoli	S. IN 462 04						
317-63 TURE TERROR Schipp O	redimond com						
Interconnection Information							
Total Generating Capacity Out	out of Customer Facility (AC Power ar	nd Voltage): 144.0	W, 480V				
Type of Generator: Inverter	-Based Synchronous Induc	tion					
Power Source: Solar V Gas-Fueled Recipro Other (Specify)	Vind Diesel-fueled Reciprocating ocating Engine Gas Turbine	Engine Microturbine					
Is the Equipment "Certified" * a ⊠ Yes ☐ No	s defined by 170 Indiana Administrativ	ve Code ("IAC") 4-	4.3-5				
Indicate all possible operating r	modes for this generator facility:						
* Certified as defined in 170 IAI ** Level 2 as defined in 170 IAI							



Emergency / Standby – Operated when Indianapolis Power & Light Company service is not available. Paralleling is for short durations.
Peak Shaving – Operated during peak demand periods. Paralleling is for extended times.
□ Base Load Power – Operated continuously at a predetermined output. Paralleling is continuous.
Cogeneration – Operated primarily to produce thermal energy. Paralleling is extended or continuous.
Renewable non-dispatched – Operated in response to an available renewable resource such as solar or wind. Paralleling is for extended times.
Other – Describe:
Indicate the intended use of power generated from the proposed facility, subject to all applicable
regulatory approvals.
☐ Sale of power to IPL by Rate CGS.
☐ Sale of power to IPL by Rate REP.
Net Metering ■ Net Metering Net Metering ■ Net Metering Net Metering
☐ Internal Usage only
☐ Demand Response Resource
Other - Explain
Level of Interconnection Review Requested:
□ Level 2** for nameplate rating 2MW or less

For this application to be considered complete, adequate documentation and information must be submitted that will allow Indianapolis Power & Light Company ("IPL") to determine the impact of the generation facilities on IPL's electric system and to confirm compliance by Customer with the provisions of 170 IAC 4-4.3 and IPL's requirements. Typically this should include the following for Level 2 applications:

- Single-line diagram of the customer's system showing all electrical equipment from the generator to the point of interconnection with IPL's distribution system, including generators, transformers, switchgear, switches, breakers, fuses, voltage transformers, and current transformers.
- 2. Control drawings for relays and breakers.
- 3. Site Plans showing the physical location of major equipment.
- 4. Relevant ratings of equipment. Transformer information should include capacity ratings, voltage ratings, winding arrangements, and impedance.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)



- If protective relays are used, settings applicable to the interconnection protection. If programmable relays are used, a description of how the relay is programmed to operate as applicable to interconnection protection.
- 6. For Certified* equipment, documentation confirming that a nationally recognized testing and certification laboratory has listed the equipment.
- A description of how the generator system will be operated including all modes of operation.
- 8. For inverters, the manufacturer name, model number, and AC power rating, Operating manual or link to manufacture's web site containing such manual.
- 9. For synchronous generators, manufacturer and model number, nameplate ratings, and impedance data (Xd, X'd, & X"d).
- 10. For induction generators, manufacturer and model number, nameplate ratings, and locked rotor current.

This application is subject to further consideration and study by IPL and the possible need for additional documentation and information from Customer.

Fees

Level 2 Initial Review \$50 plus, \$1/kW of nameplate capacity.

Additional Review¹ Non-binding, good faith cost estimate provided to customer.

Additional Review may be elected by the customer for the case where the facility failed to meet one or more of the applicable requirements and the Initial Review indicated that additional review may enable the Company to approve the application with minor modifications. The applicant cost to conduct the Additional Review is in addition to the initial Review Fee. Actual costs will be billed or credited to the applicant following completion of the Additional review and minor modifications.

Insurance Requirements

The Applicant shall provide evidence of homeowners, commercial or other insurance that provides coverage in the amount of at least \$2 million for Comprehensive General Liability and Contractual Liability.

Evidence of Insurance coverage provided with Application

Reference Documents

170 IAC Customer generator interconnection standards are located at the following web site. http://www.in.gov/legislative/iac/T01700/A00040.PDF?

Submittal of Fees, Application and Documentation

Fees - Payment for the Initial Review shall be sent to IPL Distributed Generation Interconnections, Attn: Sonya Kunkel, 1230 W Morris St., Indianapolis, IN 46221. Please make checks payable to Indianapolis Power & Light Co. and include the customer's name and address on the check.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)



Application and Documentation - Please send the application and all documentation electronically to ipl.interconnection@aes.com using the standard e-mail formatting. All paper copies of documentation should be scanned electronically prior to submittal to IPL.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

Exhibit 1B Single Line Drawing

ЕИЕВСУ ВЕРПСТІОИ РВОЈЕСТЯ **MSD WAYNE TOWNSHIP SCHOOLS**



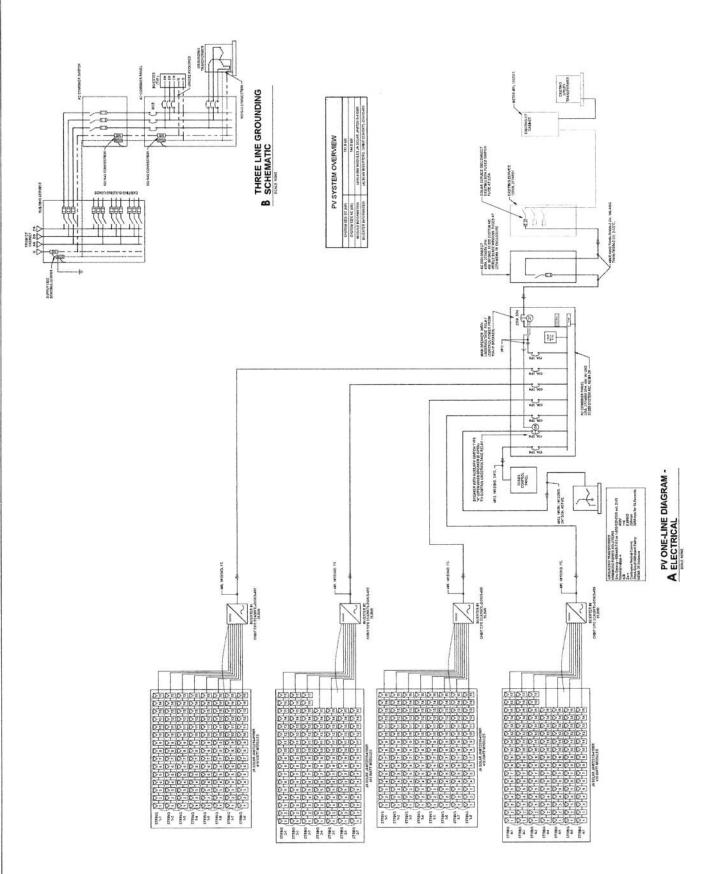
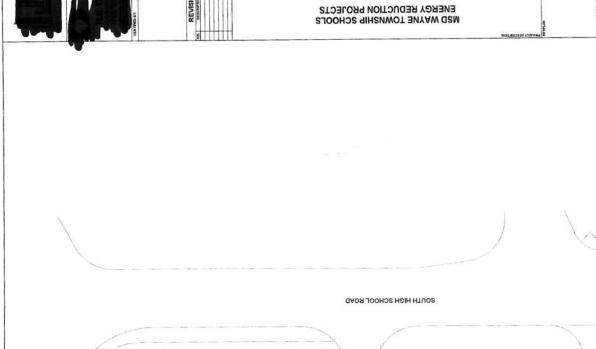


Exhibit 1C Site Plan Drawing



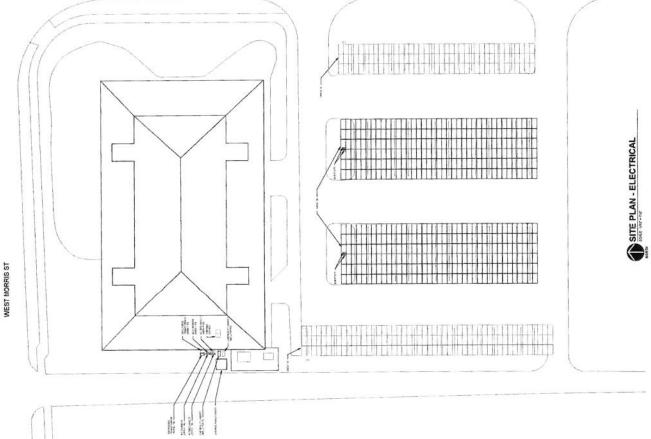


Exhibit 1D Inverter Specifications



25kW 208V, 1000Vdc String Inverters for North America

The 25kW (25kVA) CPS three phase string inverters are designed for rooftop and carport applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 97.0% peak and 96.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 25KTL product ships with the Rapid Shutdown wirebox, fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown wire-box enables PVRSS certified module-level rapid shutdown when used with the APS RSD-S-PLC-A products. The CPS Flex Gateway enables monitoring, controls and remote product upgrades.

Key Features

- NEC 2017/2020 PVRSS Certified Rapid Shutdown
- NEC 2017 compliant & UL listed Arc-Fault circuit protection
- 15-90° Mounting orientation for low profile roof installs
- Optional Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 3 MPPT's with 2 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL1741 SA Certified to CA Rule 21, including SA14 FW and SA15 VW
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years
- Generous 1.8 DC/AC Inverter Load Ratio



CPS SCA25KTL-DO/US-208



25KTL Rapid Shutdown Wire-box







Model Name

DC Input

Max. PV Power

Max. DC Input Voltage

Operating DC Input Voltage Range

Start-up DC Input Voltage / Power

Number of MPP Trackers

MPPT Voltage Range @ PF>0.99

Max. PV Short-Circuit Current (Isc x 1.25)

Number of DC Inputs

DC Disconnection Type

DC Surge Protection

AC Output

Rated AC Output Power @ PF>0.99

Max. AC Apparent Power (Selectable)

Rated Output Voltage

Output Voltage Range¹

Grid Connection Type

Max. AC Output Current @208Vac

Rated Output Frequency

Output Frequency Range¹

Power Factor

Current THD @ Rated Load

Max. Fault Current Contribution (1 Cycle RMS)

Max. OCPD Rating

AC Disconnection Type

AC Surge Protection

System and Performance

Topology

Max. Efficiency

CEC Efficiency

Stand-by / Night Consumption

Environment

Enclosure Protection Degree

Cooling Method

Operating Temperature Range²

Non-Operating Temperature Range³

Operating Humidity

Operating Altitude

Audible Noise

Display and Communication

User Interface and Display

Inverter Monitoring

Site Level Monitoring

Modbus Data Mapping

Remote Diagnostics / FW Upgrade Functions

Mechanical

Dimensions (HxWxD)

Weight

Mounting / Installation Angle⁴

AC Termination

DC Termination⁵

Fused String Inputs (2 per MPPT)⁶

Safety

Certifications and Standards

Selectable Grid Standard

Smart-Grid Features

Warranty

Standard **Extended Terms** CPS SCA25KTL-DO/US-208

45kW (17kW per MPPT)

1000Vdc

200-950Vdc

330V / 80W

480-850Vdc

135A (45A per MPPT)

6 inputs, 2 per MPPT

Load-rated DC switch

Type II MOV, 2800V_C, 20kA I_{TM} (8/20...S)

25kW

25kVA

208Vac

183 - 228Vac

3Φ / PE / N (Neutral optional)

69.5A

60Hz

57 - 63Hz

>0.99 (±0.8 adjustable)

<3%

64.1A (0.92 PU)

125A

Load-break rated AC switch

Type II MOV, 1240V_c, 15kA I_{TM} (8/20...S)

Transformerless

97.0%

96.5%

<3W

NEMA Type 4X

Variable speed cooling fans

-22°F to +140°F / - 30°C to +60°C

No low temp minimum to +158°F / +70°C maximum

0 to 100%

13,123.4ft / 4000m (derating from 9842.5ft / 3000m)

<60dBA @ 1m and 25°C

LCD+LED

SunSpec, Modbus RS485

CPS Flex Gateway (1 per 32 inverters)

CPS

Standard / (with Flex Gateway)

39.4 x 23.6 x 10.24in. (1000 x 600 x 260mm)

Inverter: 123.5lbs/56kg; Wire-box: 33lbs/15kg

15 to 90 degrees from horizontal (vertical or angled)

M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL, Lugs not supplied)

Screw Clamp, Neg. Busbar⁵ Wire range: #14 - #6AWG CU

20A fuses provided (Fuse values up to 30A acceptable)

UL1741SA-2016, UL1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE1547a-2014, FCC PART15

IEEE 1547, CA Rule 21, ISO-NE, HECO Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt

10 years

15 and 20 years

¹⁾ The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.

Active Power Derating begins; at 45°C when PF=1 and MPPT≥Vmin, and at 50°C when PF=1 and MPPT V≥ 700Vdc.

³⁾ See user manual for further requirements regarding non-operating conditions.

⁴⁾ Shade Cover accessory required for installation angles of 75 degrees or less.
5) RSD wire-box only includes fuses/fuseholders on the positive polarity, compliant with NEC 2017, 690.9 (C).
6) Fuse values above 20A have additional spacing requirements or require the use of the Y-Comb Terminal Block. See user manual for details.



Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

Project:

80048389

Date Issued:

2020-08-19

Issued to:

SHANGHAI CHINT POWER SYSTEMS CO.,LTD

3255 Si Xian Rd Songjiang District, Shanghai 201614

CHINA

Attention: Huan Cai

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Tason Lei Jason Lei

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Transformerless Grid Support Utility Interactive Inverter, Models CPS SCA50KTL-DO/US-480, CPS SCA60KTL-DO/US-480 and CPS SCA25KTL-DO/US-208, permanently connected.

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.



Certificate:

70128088

Project:

80048389

Master Contract: 255045

Date Issued: 2020-08-19

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01

General Use Power Supplies

*UL 1741

Inverters, Converters, Controllers and Interconnection System

Equipment for Use With Distributed Energy Resources (Second Edition, Revision September 7, 2016)

UL1741 CRD

Non-Isolated EPS Interactive PV Inverters Rated Less Than 30Kva

(Dated April 26, 2010)

UL1741 CRD

Grid Support Utility Interactive Interoperability Optional Functions:

Prevent Enter Service and Limit Active Power (CA Rule 21, Phase 3, functions 2 and 3) (Dated October 22,

2019)

CSA TIL M-07

Interim Certification Requirements for Photovoltaic (PV) DC Arc-Fault

Protection (Issue Number 1, March 11, 2013)

UL 1699B

Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated

August 22, 2018)

^{*}Note: Conformity to UL 1741 (Second Edition, Revision September 7, 2016) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547a-2014, IEEE 1547.1-2005(R2011), IEEE 1547.1a-2015, California Rule 21 and Supplement SA 8-18.



Supplement to Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80048389	2020-08-19	Update report 70128088 to add new model CPS SCA25KTL-DO/US-208, change the Maximum continuous output current for CPS SCA50/60KTL-DO/US-480 and meet the requirement for Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated August 22, 2018).
80046608	2020-06-17	Update to report 70128088 to include UL1741CRD SA17 - 18 requirements.
70218379	2019-03-15	Update report 70128088 to include alternate components, modification and the software version update.
70203151	2018-11-29	Update report 70128088 to include alternate components and modification to markings.
70128097	2017-07-06	Update report 70128088 to include grid support function to meet California
		Rule 21 requirements.
70128088	2017-07-06	Grid Support Utility Interactive Inverter, Model CPS SCA50KTL-DO/US-480 and CPS SCA60KTL-DO/US-480. (C/US)

Exhibit 1E Certificate of Insurance

ACORD.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/16/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).										
PRODUCER					CONTACT Jennifer Collins					
EPIC Insurance Midwest				PHONE (A/C, No, Ext): 317-706-9828 (A/C, No):						
	P.O. Box 80159				E-MAIL ADDRESS: jennifer.collins@epicbrokers.com					
Indianapolis, IN 46280										NAIC #
					INSURER A: The Netherlands Insurance Company					24171
INSURED									22659	
	MSD of Wayne Township					R C : Peerless				24198
	Marion County Indiana						mourance or	ompany		24130
	1220 South High School Road			INSURE						
	Indianapolis, IN 46241				INSURE					
CO	VERAGES CER	TIEIC	ATE	NUMBER:	INSURE	RF:		DEVICION NUMBER		
_	HIS IS TO CERTIFY THAT THE POLICIES		-		/E DEE	NICELIED TO		REVISION NUMBER:	DOL IO	/ DEDIOD
IN CI	IDICATED. NOTWITHSTANDING ANY RE- ERTIFICATE MAY BE ISSUED OR MAY F KCLUSIONS AND CONDITIONS OF SUCH	QUIRE	IN, 7	T, TERM OR CONDITION OF THE INSURANCE AFFORDED	ANY BY T	CONTRACT OF	R OTHER DOO DESCRIBED I	CUMENT WITH RESPECT HEREIN IS SUBJECT TO	TO WH	CH THIS
INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)			
Α	X COMMERCIAL GENERAL LIABILITY	X		CBP8488211				EACH OCCURRENCE	\$1,00	0.000
	CLAIMS-MADE X OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)		
								MED EXP (Any one person)	s15.0	
								PERSONAL & ADV INJURY	\$1,000	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$2,000,000	
	POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG \$2,00		
	OTHER:								\$	7
С	AUTOMOBILE LIABILITY			BA9853550		06/01/2021	06/01/2022	COMBINED SINGLE LIMIT (Ea accident)	\$1,000	0.000
	X ANY AUTO							BODILY INJURY (Per person) \$,,,,,,
	OWNED SCHEDULED						-	BODILY INJURY (Per accident)		
	▼ HIRED ▼ NON-OWNED							PROPERTY DAMAGE (Per accident)		
	AUTOS ONLY AUTOS ONLY							(Per accident)	\$	
В	X UMBRELLA LIAB X OCCUR			CU8521081		06/04/2024	06/04/2022	EACH OCCURRENCE		0.000
-	- COCOR			CU6521061		06/01/2021	06/01/2022			00,000
	CLAIMS-WADE							AGGREGATE	\$10,00	00,000
-	DED X RETENTION \$10000 WORKERS COMPENSATION	-	-		-			PER OTH-	\$	
	AND EMPLOYERS' LIABILITY						-	STATUTE IER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A					-	E.L. EACH ACCIDENT	\$	
	(Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - EA EMPLOYEE		
^				CBP8488211		06/01/2021	06/04/2022	E.L. DISEASE - POLICY LIMIT	\$	
Α	Leased/Rented Eq.			CBP0400211		06/01/2021	06/01/2022	\$25,000		
DES	COLOTION OF OBEDATIONS // COATIONS ///CINC	LES /A	CORT	101 Additional Paragle School	lo mo	no attacked if	ro enone le re-	irod)		
DEG	DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)									
CEL	CERTIFICATE HOLDER CANCELLATION									
ULI	THE POLICE			T	JANO					
AES Indiana 2102 N. Illinois St. Indianapolis, IN 46202					THE	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.				
	37			Ī	AUTHORIZED REPRESENTATIVE					
t.				8						
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Exhibit 1F Miscellaneous Attachments

EXHIBIT A

Generation Facilities Description

The generation facility for Commercial Customer Metropolitan School District of Wayne Township is located at 5248 West Raymond Street, Indianapolis, IN 46241. This level 2 solar distributed generation facility will have a nameplate output rating of 150.0 kW. Finalizing the interconnection agreement and Standard Contract Rider No. 9 (net metering) is dependent upon the Customer.

The site consists of four-hundred fifty-seven (457) JA Solar JAM72S10-410MR solar panels connected with six (6) CHINT SCA25KTL-DO-US-208 208V inverter(s) each rated 25,000 watts max AC inverter output; the inverters are rated at 208 VAC single-phase, 60 Hz. This accumulates for a total inverter output generator capacity of 150.0 kW as listed on the attached application. The inverter data sheet lists the UL 1741 and IEEE 1547 certificates and approvals.

Operating Conditions

The installation shall operate in the automatic mode as governed by the IEEE 1547 standard. The distributed resource (DR) shall operate the point of common coupling at power factor required by the Company for proper operation of the power system when the producer is connected. The distributed resource (DR) shall be notified of any changes needed to the power factor (PF) schedule based on testing and operating experience after commissioning. The primary voltage schedule based on DR operation at 1.0 PF is 208 VAC during all operating times.

The installation shall operate as governed by the IEEE 1547 standard.

The distributed resource (DR) shall operate the point of common coupling at 1.0 power factor (PF unity). The DR shall be notified of any changes needed to the power factor (PF) scheduled based on testing and operating experience after commissioning.

The Customer shall notify Company prior to operating the distributed generation and request a witnessing test as dictated by IEEE 1547 section 5.4 with procedures detailed in footnote 19 stating that the test procedures are commonly provided by the equipment manufacturer(s). The Customer should have a written test procedure prior to the test which should contain check-off boxes for all actions taken during the test. Customer shall provide Company a copy of the test procedure at the conclusion of the test

The Customer or Owner shall compensate Company for labor and materials needed for maintenance of equipment required after interconnection. Standard labor and overtime rates shall apply for work performed. Routine work shall be scheduled at least a month in advance or performed at emergency overtime rates pending availability of crews and equipment.

Network Upgrades Installed by COMPANY but reimbursed and maintained at Owner Expense

COMPANY shall provide and install the following revenue meter at customer expense.

One revenue meter to monitor the inverter and service.

The Customer shall be responsible for all metering and connection costs.

Attachments

Exhibit 1A Interconnection Application including submitted drawings

Exhibit 1B Single Line Drawing

Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications

Exhibit 1E Certificate of Insurance

Exhibit 1F Miscellaneous Attachments

Exhibit 1A Interconnection Application



Application For Interconnection Level 2**- 2MW or Less

Application Date: 11/9/2021

Applicant Information (Please	e use the tab key between fields.)						
Customer (Applicant) Name:	Metropolitan School District of Wayne Township						
Applicant Address:	1220 South High School Road						
City/State/Zip Code:	Indianapolis, Indiana 46241						
Contact Person:	Total Manufacture						
Email Address:	yne.k12.in.us Phone: Phone:						
Generation Site Information							
Service (Site) Address:	Wayne Enrichment Center, 5248 West Raymond St.						
City/State/Zip Code:	Indianapolis, IN 46241						
Phone Number:	Lat/Long: 39.73626, -86.24992						
Map-Pole Number:	Meter No: IPL-0020921						
Developer Information	Map-Pole: 596-A/459; JLS, 11/29/2021						
Project Developer Name:	Email Address:						
Chairman Very 1907							
Project Developer Address:	Phone:						
Please provide names and o	contact information for other Contractor and Engineering firms						
involved in the design and insta							
Assos Schipp, R.E. Dimord and							
732 N. Capitol Ave, Indianapoli:	THE REPORT OF THE PARTY OF THE						
of the second street, second							
Interconnection Information							
Total Generating Capacity Outp	out of Customer Facility (AC Power and Voltage): 150.0kW, 208V						
Type of Generator: 🛛 Inverter-	Based Synchronous Induction						
Annual Control of the	/ind Diesel-fueled Reciprocating Engine cating Engine						
ls the Equipment "Certified" * as ⊠ Yes ☐ No	defined by 170 Indiana Administrative Code ("IAC") 4-4.3-5						
Indicate all possible operating m	nodes for this generator facility:						
* Certified as defined in 170 IAC ** Level 2 as defined in 170 IAC							



Emergency / Standby – Operated when Indianapolis Power & Light Company service is not available. Paralleling is for short durations.
Peak Shaving – Operated during peak demand periods. Paralleling is for extended times.
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Cogeneration – Operated primarily to produce thermal energy. Paralleling is extended or continuous.
Renewable non-dispatched – Operated in response to an available renewable resource such as solar or wind. Paralleling is for extended times.
☐ Other – Describe:
Indicate the intended use of power generated from the proposed facility, subject to all applicable
regulatory approvals.
☐ Sale of power to IPL by Rate CGS.
☐ Sale of power to IPL by Rate REP.
Net Metering
☐ Internal Usage only
☐ Demand Response Resource
Other - Explain
Level of Interconnection Review Requested:
Level 2** for nameplate rating 2MW or less

For this application to be considered complete, adequate documentation and information must be submitted that will allow Indianapolis Power & Light Company ("IPL") to determine the impact of the generation facilities on IPL's electric system and to confirm compliance by Customer with the provisions of 170 IAC 4-4.3 and IPL's requirements. Typically this should include the following for Level 2 applications:

- Single-line diagram of the customer's system showing all electrical equipment from the generator to the point of interconnection with IPL's distribution system, including generators, transformers, switchgear, switches, breakers, fuses, voltage transformers, and current transformers.
- 2. Control drawings for relays and breakers.
- 3. Site Plans showing the physical location of major equipment.
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^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

- 5. If protective relays are used, settings applicable to the interconnection protection. If programmable relays are used, a description of how the relay is programmed to operate as applicable to interconnection protection.
- 6. For Certified* equipment, documentation confirming that a nationally recognized testing and certification laboratory has listed the equipment.
- A description of how the generator system will be operated including all modes of operation.
- 8. For inverters, the manufacturer name, model number, and AC power rating, Operating manual or link to manufacture's web site containing such manual.
- 9. For synchronous generators, manufacturer and model number, nameplate ratings, and impedance data (Xd, X'd, & X"d).
- For induction generators, manufacturer and model number, nameplate ratings, and locked rotor current.

This application is subject to further consideration and study by IPL and the possible need for additional documentation and information from Customer.

Fees

- Level 2 Initial Review \$50 plus, \$1/kW of nameplate capacity.

 Additional Review¹ Non-binding, good faith cost estimate provided to customer.
 - ¹ Additional Review may be elected by the customer for the case where the facility failed to meet one or more of the applicable requirements and the Initial Review indicated that additional review may enable the Company to approve the application with minor modifications. The applicant cost to conduct the Additional Review is in addition to the initial Review Fee. Actual costs will be billed or credited to the applicant following completion of the Additional review and minor modifications.

Insurance Requirements

The Applicant shall provide evidence of homeowners, commercial or other insurance that provides coverage in the amount of at least \$2 million for Comprehensive General Liability and Contractual Liability.

Reference Documents

170 IAC Customer generator interconnection standards are located at the following web site. http://www.in.gov/legislative/iac/T01700/A00040.PDF?

Submittal of Fees, Application and Documentation

Fees - Payment for the Initial Review shall be sent to IPL Distributed Generation Interconnections, Attn: Sonya Kunkel, 1230 W Morris St., Indianapolis, IN 46221. Please make checks payable to Indianapolis Power & Light Co. and include the customer's name and address on the check.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)



Application and Documentation - Please send the application and all documentation electronically to ipl.interconnection@aes.com using the standard e-mail formatting. All paper copies of documentation should be scanned electronically prior to submittal to IPL.

^{*} Certified as defined in 170 IAC 4-4.3-5

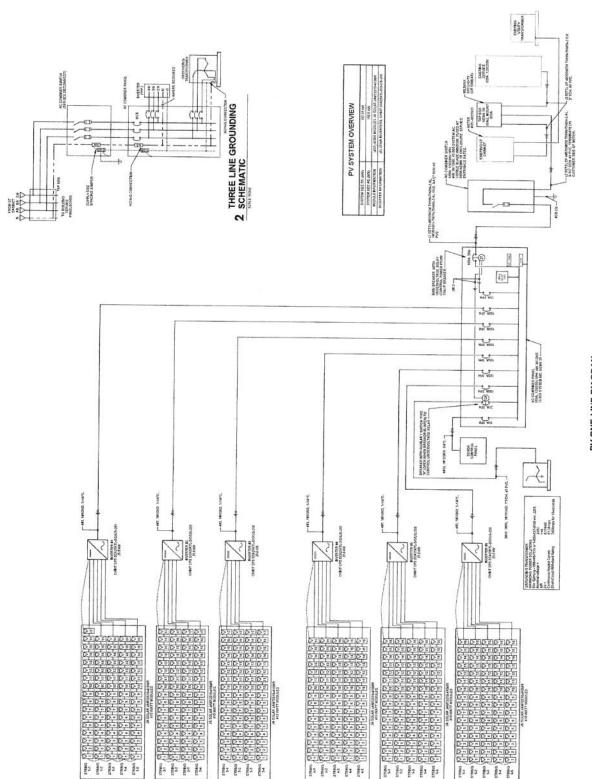
^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

Exhibit 1B Single Line Drawing

WAYNE ENRICHMENT CENTER 6248 WEST RAYMOND STREET INDIANAPOLIS, INDIANA 46241







PV ONE-LINE DIAGRAM -ELECTRICAL

Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications



25kW 208V, 1000Vdc String Inverters for North America

The 25kW (25kVA) CPS three phase string inverters are designed for rooftop and carport applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 97.0% peak and 96.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 25KTL product ships with the Rapid Shutdown wirebox, fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown wire-box enables PVRSS certified module-level rapid shutdown when used with the APS RSD-S-PLC-A products. The CPS Flex Gateway enables monitoring, controls and remote product upgrades.

Key Features

- NEC 2017/2020 PVRSS Certified Rapid Shutdown
- NEC 2017 compliant & UL listed Arc-Fault circuit protection
- 15-90° Mounting orientation for low profile roof installs
- Optional Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 3 MPPT's with 2 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL1741 SA Certified to CA Rule 21, including SA14 FW and SA15 VW
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years
- Generous 1.8 DC/AC Inverter Load Ratio



CPS SCA25KTL-DO/US-208



25KTL Rapid Shutdown Wire-box







Model Name

DC Input

Max. PV Power

Max. DC Input Voltage

Operating DC Input Voltage Range

Start-up DC Input Voltage / Power

Number of MPP Trackers

MPPT Voltage Range @ PF>0.99

Max. PV Short-Circuit Current (Isc x 1.25)

Number of DC Inputs

DC Disconnection Type

DC Surge Protection

AC Output

Rated AC Output Power @ PF>0.99

Max. AC Apparent Power (Selectable)

Rated Output Voltage

Output Voltage Range¹

Grid Connection Type

Max. AC Output Current @208Vac

Rated Output Frequency

Output Frequency Range¹

Power Factor

Current THD @ Rated Load

Max. Fault Current Contribution (1 Cycle RMS)

Max. OCPD Rating

AC Disconnection Type

AC Surge Protection

System and Performance

Topology

Max. Efficiency

CEC Efficiency

Stand-by / Night Consumption

Environment

Enclosure Protection Degree

Cooling Method

Operating Temperature Range²

Non-Operating Temperature Range³

Operating Humidity

Operating Altitude

Audible Noise

Display and Communication

User Interface and Display

Inverter Monitoring

Site Level Monitoring

Modbus Data Mapping

Remote Diagnostics / FW Upgrade Functions

Mechanical

Dimensions (HxWxD)

Weight

Mounting / Installation Angle⁴

AC Termination

DC Termination⁵

Fused String Inputs (2 per MPPT)⁶

Safety

Certifications and Standards

Selectable Grid Standard

Smart-Grid Features

Warranty Standard

Extended Terms

CPS SCA25KTL-DO/US-208

45kW (17kW per MPPT)

1000Vdc

200-950Vdc

330V / 80W

480-850Vdc

135A (45A per MPPT)

6 inputs, 2 per MPPT

Load-rated DC switch

Type II MOV, 2800V_C, 20kA I_{TM} (8/20...S)

25kW

25kVA

208Vac

183 - 228Vac

3Φ / PE / N (Neutral optional)

57 - 63Hz

>0.99 (±0.8 adjustable)

<3%

64.1A (0.92 PU)

125A

Load-break rated AC switch

Type II MOV, 1240V_C, 15kA I_{TM} (8/20...S)

Transformerless

97.0%

96.5%

<3W

NEMA Type 4X

Variable speed cooling fans

-22°F to +140°F / - 30°C to +60°C

No low temp minimum to +158°F / +70°C maximum

0 to 100%

13,123.4ft / 4000m (derating from 9842.5ft / 3000m)

<60dBA @ 1m and 25°C

LCD+LED

SunSpec, Modbus RS485

CPS Flex Gateway (1 per 32 inverters)

Standard / (with Flex Gateway)

39.4 x 23.6 x 10.24in. (1000 x 600 x 260mm)

Inverter: 123.5lbs/56kg; Wire-box: 33lbs/15kg

15 to 90 degrees from horizontal (vertical or angled)

M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL, Lugs not supplied)

Screw Clamp, Neg. Busbar⁵ Wire range: #14 - #6AWG CU

20A fuses provided (Fuse values up to 30A acceptable)

UL1741SA-2016, UL1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE1547a-2014, FCC PART15 IEEE 1547, CA Rule 21, ISO-NE, HECO

Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt

10 years

15 and 20 years

¹⁾ The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.
2) Active Power Derating begins; at 45°C when PF=1 and MPPT≥Vmin, and at 50°C when PF=1 and MPPT V ≥ 700Vdc.

³⁾ See user manual for further requirements regarding non-operating conditions.

⁴⁾ Shade Cover accessory required for installation angles of 75 degrees or less.
5) RSD wire-box only includes fuses/fuseholders on the positive polarity, compliant with NEC 2017, 690.9 (C).

⁶⁾ Fuse values above 20A have additional spacing requirements or require the use of the Y-Comb Terminal Block. See user manual for details.



Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

Project:

80048389

Date Issued:

2020-08-19

Issued to:

SHANGHAI CHINT POWER SYSTEMS CO.,LTD

3255 Si Xian Rd Songjiang District, Shanghai 201614

CHINA

Attention: Huan Cai

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Jason Lei Jason Lei

PRODUCTS

CLASS - C531109 - POWER SUPPLIES-Distributed Generation Power Systems Equipment CLASS - C531189 - POWER SUPPLIES - Distributed Generation-Power Systems Equipment - Certified to U.S. Standards

Transformerless Grid Support Utility Interactive Inverter, Models CPS SCA50KTL-DO/US-480, CPS SCA60KTL-DO/US-480 and CPS SCA25KTL-DO/US-208, permanently connected.

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.



Certificate: 70128088

Project: 80

80048389

Master Contract: 255045

Date Issued: 2020-08-19

APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-01

General Use Power Supplies

*UL 1741

Inverters, Converters, Controllers and Interconnection System

Equipment for Use With Distributed Energy Resources (Second Edition, Revision September 7, 2016)

UL1741 CRD

Non-Isolated EPS Interactive PV Inverters Rated Less Than 30Kva

(Dated April 26, 2010)

UL1741 CRD

Grid Support Utility Interactive Interoperability Optional Functions:

Prevent Enter Service and Limit Active Power (CA Rule 21, Phase 3, functions 2 and 3) (Dated October 22,

2019)

CSA TIL M-07

Interim Certification Requirements for Photovoltaic (PV) DC Arc-Fault

Protection (Issue Number 1, March 11, 2013)

UL 1699B

Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated

August 22, 2018)

*Note: Conformity to UL 1741 (Second Edition, Revision September 7, 2016) includes compliance with applicable requirements of IEEE 1547-2003 (R2008), IEEE 1547a-2014, IEEE 1547.1-2005(R2011), IEEE 1547.1a-2015, California Rule 21 and Supplement SA 8-18.



Supplement to Certificate of Compliance

Certificate:

70128088

Master Contract: 255045

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80048389	2020-08-19	Update report 70128088 to add new model CPS SCA25KTL-DO/US-208, change the Maximum continuous output current for CPS SCA50/60KTL-DO/US-480 and meet the requirement for Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated August 22, 2018).
80046608	2020-06-17	Update to report 70128088 to include UL1741CRD SA17 - 18 requirements.
70218379	2019-03-15	Update report 70128088 to include alternate components, modification and the software version update.
70203151	2018-11-29	Update report 70128088 to include alternate components and modification to markings.
70128097	2017-07-06	Update report 70128088 to include grid support function to meet California
		Rule 21 requirements.
70128088	2017-07-06	Grid Support Utility Interactive Inverter, Model CPS SCA50KTL-DO/US-
		480 and CPS SCA60KTL-DO/US-480. (C/US)

Exhibit 1E Certificate of Insurance

MSDWAYN

ACORD.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/16/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

	his certificate does not confer any rig	hts to the	e certificate holder in lieu			and an ondorsement A	otateini	ent on
100	DDUCER			CONTACT Jennifer Collins				
EPIC Insurance Midwest				PHONE (A/C, No, Ext): 317-706-9828 FAX (A/C, No):				
P.O. Box 80159 Indianapolis, IN 46280				E-MAIL ADDRESS: jennifer.collins@epicbrokers.com				
mic	manapons, IN 40280			INSURER(S) AFFORDING COVERAGE NAICE				
				INSURER A : The Netherlands Insurance Company				24171
INS	MSD of Wayne Township		INSURER B : Indiana	Insurance Co	mpany		22659	
	MSD of Wayne Township Marion County Indiana			INSURER C : Peerles	s Insurance C	ompany		24198
	1220 South High School F	and.		INSURER D:				
	Indianapolis, IN 46241	koad	INSURER E :					
				INSURER F:				
_			E NUMBER:			REVISION NUMBER:		
C	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RE ERTIFICATE MAY BE ISSUED OR MAY I XCLUSIONS AND CONDITIONS OF SUCH	PERTAIN, POLICIES	NT, TERM OR CONDITION O THE INSURANCE AFFORDE S. LIMITS SHOWN MAY HA	PF ANY CONTRACT OF D BY THE POLICIES VE BEEN REDUCED	DR OTHER DO DESCRIBED BY PAID CLAI	CUMENT WITH RESPECT	TA 140 11	011 7110
NSR LTR		ADDL SUB INSR WVD			POLICY EXP (MM/DD/YYYY)	LIMIT	S	
Α	X COMMERCIAL GENERAL LIABILITY	X	CBP8488211	06/01/2021	06/01/2022	EACH OCCURRENCE	\$1,000	0,000
	CLAIMS-MADE X OCCUR					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$500,0	000
						MED EXP (Any one person)	\$15,00	00
	GEN'L AGGREGATE LIMIT APPLIES PER:					PERSONAL & ADV INJURY	\$1,000	
	PRO-					GENERAL AGGREGATE	\$2,000	
	POLICY JECT LOC OTHER:					PRODUCTS - COMP/OP AGG	\$2,000	,000
С	AUTOMOBILE LIABILITY		BA9853550	06/04/2024	06/01/2022	COMBINED SINGLE LIMIT	4 000	000
20	X ANY AUTO		D/13033330	00/01/2021	00/01/2022	(Ea accident) BODILY INJURY (Per person)	\$1,000	,000
	OWNED SCHEDULED						\$	
	▼ HIRED ▼ NON-OWNED	1				PROPERTY DAMAGE	\$	
	AUTOS ONLY AUTOS ONLY					(Per accident)	\$	
В	X UMBRELLA LIAB X OCCUR		CU8521081	06/01/2021	06/01/2022	EACH OCCURRENCE	•	0.000
	EXCESS LIAB CLAIMS-MADE			00/01/2021	0010112022		\$10,00 \$10,00	
	DED X RETENTION \$10000						\$ 10,00	0,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY					PER OTH-	•	
ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)		N/A				E.L. EACH ACCIDENT	s	
						E.L. DISEASE - EA EMPLOYEE	-	
	If yes, describe under DESCRIPTION OF OPERATIONS below						\$	
Α	Leased/Rented Eq.		CBP8488211	06/01/2021	06/01/2022		***	
DESC	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (ACOR	D 101, Additional Remarks Schedu	ile, may be attached if mo	ore space is requi	red)		
				e est e e e e e e e e e e e e e e e e e		nome		
								- 1
EF	RTIFICATE HOLDER			CANCELLATION				
				202000000000000000000000000000000000000				
	AES Indiana			SHOULD ANY OF T	HE ABOVE DE	SCRIBED POLICIES BE CAN	CELLE	BEFORE
	2102 N. Illinois St.			THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.				
Indianapolis, IN 46202								

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AUTHORIZED REPRESENTATIVE

Exhibit 1F Miscellaneous Attachments

EXHIBIT A

Generation Facilities Description

The generation facility for customer Metropolitan School District of Wayne Township is located at 242 N High School Rd, Indianapolis, IN 46241. This level 2 solar distributed generation facility will have a nameplate output rating of 15.0 kW. Finalizing the interconnection agreement and Standard Contract Rider No. 9 (net metering) is dependent upon the Customer.

The site consists of forty-four (44) JA Solar Jam72S10-410MR solar panels connected with one (1) Fronius Primo 15.0-1 240V inverter(s) each rated 15,000 watts max AC inverter output; the inverters are rated at 240 VAC single-phase, 60 Hz. This accumulates for a total inverter output generator capacity of 15.0 kW as listed on the attached application. The inverter data sheet lists the UL 1741 and IEEE 1547 certificates and approvals.

Operating Conditions

The installation shall operate in the automatic mode as governed by the IEEE 1547 standard. The distributed resource (DR) shall operate the point of common coupling at power factor required by the Company for proper operation of the power system when the producer is connected. The distributed resource (DR) shall be notified of any changes needed to the power factor (PF) schedule based on testing and operating experience after commissioning. The primary voltage schedule based on DR operation at 1.0 PF is 220 VAC during all operating times.

The installation shall operate as governed by the IEEE 1547 standard.

The distributed resource (DR) shall operate the point of common coupling at 1.0 power factor (PF unity). The DR shall be notified of any changes needed to the power factor (PF) scheduled based on testing and operating experience after commissioning.

The Customer shall notify Company prior to operating the distributed generation and request a witnessing test as dictated by IEEE 1547 section 5.4 with procedures detailed in footnote 19 stating that the test procedures are commonly provided by the equipment manufacturer(s). The Customer should have a written test procedure prior to the test which should contain check-off boxes for all actions taken during the test. Customer shall provide Company a copy of the test procedure at the conclusion of the test

The Customer or Owner shall compensate Company for labor and materials needed for maintenance of equipment required after interconnection. Standard labor and overtime rates shall apply for work performed. Routine work shall be scheduled at least a month in advance or performed at emergency overtime rates pending availability of crews and equipment.

Network Upgrades Installed by COMPANY but reimbursed and maintained at Owner Expense

COMPANY shall provide and install the following revenue meter at customer expense.

One revenue meter to monitor the inverter and service.

The Customer shall be responsible for all metering and connection costs.

Attachments

Exhibit 1A Interconnection Application including submitted drawings

Exhibit 1B Single Line Drawing

Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications

Exhibit 1E Certificate of Insurance

Exhibit 1F Miscellaneous Attachments

Exhibit 1A Interconnection Application



Application For Interconnection Level 2**- 2MW or Less

Application Date: 11/9/2021

Applicant Information (Please	use the t	ab key between fields.)			
Customer (Applicant) Name:	Metropolitan School District of Wayne Township				
Applicant Address:	1220 So	uth High School Road			
City/State/Zip Code:	Indianap	olis, Indiana 46241			
Contact Person:	Todd He	S			
Email Address:	taga har	@wayne.k12.in.us	Phone:		
Generation Site Information					
Service (Site) Address:	Emerge	ncyServicesEducationCer	nter, 242N.HighSch	oolRoad,	
City/State/Zip Code:	Indianap	olis, IN 46214			
Phone Number:	Teams	Lat/Long: 39.769327, -86.	270883		
Map-Pole Number:		Meter No: IPL-0226301			
Developer Information					
Project Developer Name:	Argel 2	Habibi Suprimina	Email	Address:	
Translation of the contract of					
Project Developer Address:	5915 SI	Octoberger Place Inglan	apolis, IN 4624	Phone:	
and the same					
Please provide names and co	ontact inf	formation for other Cont	ractor and Engine	ering firms	
involved in the design and instal	llation of t	he general facilities:			
AND DESCRIPTION OF THE PERSON NAMED IN	A ROYAL	P			
AR N. Capitol Ave, Indianapolis	FIN 462	#			
2.604 large paron schipp@radippord.com					
Interconnection Information					
Total Generating Capacity Outp	ut of Cust	tomer Facility (AC Power a	and Voltage): 15kW,	240V	
Type of Generator: ⊠ Inverter-Based ☐ Synchronous ☐ Induction					
Power Source: Solar Wind Diesel-fueled Reciprocating Engine Gas-Fueled Reciprocating Engine Gas Turbine Microturbine Other (Specify)					
Is the Equipment "Certified" * as defined by 170 Indiana Administrative Code ("IAC") 4-4.3-5 ⊠ Yes ☐ No					
Indicate all possible operating modes for this generator facility:					
* Certified as defined in 170 IAC 4-4.3-5 ** Level 2 as defined in 170 IAC 4-4.3-4(a)					



 Peak Shaving – Operated during peak demand periods. Paralleling is for extended times. Base Load Power – Operated continuously at a predetermined output. Paralleling is continuous. Cogeneration – Operated primarily to produce thermal energy. Paralleling is
continuous.
Cogeneration - Operated primarily to produce thermal energy. Paralleling is
extended or continuous.
Renewable non-dispatched – Operated in response to an available renewable resource such as solar or wind. Paralleling is for extended times.
Other – Describe:
Indicate the intended use of power generated from the proposed facility, subject to all applicable
regulatory approvals.
Sale of power to IPL by Rate CGS.
Sale of power to IPL by Rate REP.
☑ Net Metering
☐ Internal Usage only
Demand Response Resource
Other - Explain
Level of Interconnection Review Reguested:
□ Level 2** for nameplate rating 2MW or less

For this application to be considered complete, adequate documentation and information must be submitted that will allow Indianapolis Power & Light Company ("IPL") to determine the impact of the generation facilities on IPL's electric system and to confirm compliance by Customer with the provisions of 170 IAC 4-4.3 and IPL's requirements. Typically this should include the following for Level 2 applications:

- Single-line diagram of the customer's system showing all electrical equipment from the generator to the point of interconnection with IPL's distribution system, including generators, transformers, switchgear, switches, breakers, fuses, voltage transformers, and current transformers.
- 2. Control drawings for relays and breakers.
- 3. Site Plans showing the physical location of major equipment.
- 4. Relevant ratings of equipment. Transformer information should include capacity ratings, voltage ratings, winding arrangements, and impedance.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

- If protective relays are used, settings applicable to the interconnection protection. If programmable relays are used, a description of how the relay is programmed to operate as applicable to interconnection protection.
- For Certified* equipment, documentation confirming that a nationally recognized testing and certification laboratory has listed the equipment.
- A description of how the generator system will be operated including all modes of operation.
- 8. For inverters, the manufacturer name, model number, and AC power rating, Operating manual or link to manufacture's web site containing such manual.
- 9. For synchronous generators, manufacturer and model number, nameplate ratings, and impedance data (Xd, X'd, & X"d).
- For induction generators, manufacturer and model number, nameplate ratings, and locked rotor current.

This application is subject to further consideration and study by IPL and the possible need for additional documentation and information from Customer.

Fees

Level 2 Initial Review \$50 plus, \$1/kW of nameplate capacity.

Additional Review¹ Non-binding, good faith cost estimate provided to customer.

Additional Review may be elected by the customer for the case where the facility failed to meet one or more of the applicable requirements and the Initial Review indicated that additional review may enable the Company to approve the application with minor modifications. The applicant cost to conduct the Additional Review is in addition to the initial Review Fee. Actual costs will be billed or credited to the applicant following completion of the Additional review and minor modifications.

Insurance Requirements

The Applicant shall provide evidence of homeowners, commercial or other insurance that provides coverage in the amount of at least \$2 million for Comprehensive General Liability and Contractual Liability.

⊠ Evidence of Insurance coverage provided with Application

Reference Documents

170 IAC Customer generator interconnection standards are located at the following web site. http://www.in.gov/legislative/iac/T01700/A00040.PDF?

Submittal of Fees, Application and Documentation

Fees - Payment for the Initial Review shall be sent to IPL Distributed Generation Interconnections, Attn: Sonya Kunkel, 1230 W Morris St., Indianapolis, IN 46221. Please make checks payable to Indianapolis Power & Light Co. and include the customer's name and address on the check.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)



Application and Documentation - Please send the application and all documentation electronically to ipl.interconnection@aes.com using the standard e-mail formatting. All paper copies of documentation should be scanned electronically prior to submittal to IPL.

^{*} Certified as defined in 170 IAC 4-4.3-5

^{**} Level 2 as defined in 170 IAC 4-4.3-4(a)

Exhibit 1B Single Line Drawing

TO ARMY DE CENTROLE DE SET.

SERVET LE DEALUNG

THE SET CHECK TO ARMY

SHEET CHECK TO ARMY

PV RISER DIGGRAM

ENERGY REDUCTION PROJECTS

Outras services

AC DECEMBET NAW 1914 FUED EMICOSING NEWS AN SHELDSING FUE AT 644 PROVIDE VIRVARIO WILLDOW.

EMERGEUCY SERVICES EDUCATION CENTER 242 NORTH HIGH SCHOOL ROAD INDIANAPOLIS, INDIANA 46214





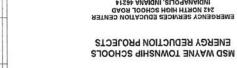
PV ONE-LINE DIAGRAM -

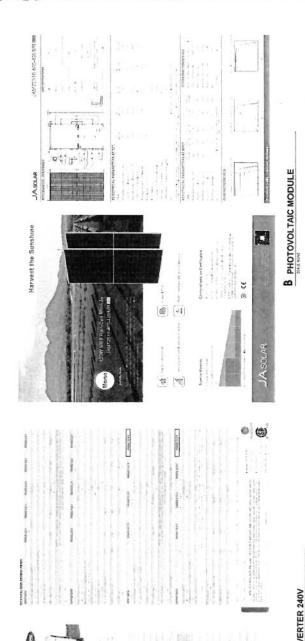
Exhibit 1C Site Plan Drawing

Exhibit 1D Inverter Specifications









FROMIUS PRIMO

REVISIONS:

A 15kW INVERTER 240V

Exhibit 1E Certificate of Insurance

MSDWAYN

Client#: 35624

CERTIFICATE OF LIABILITY INSURANCE ACORD.

DATE (MM/DD/YYYY) 11/16/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on

PRODUCER	CONTACT Jennifer Collins				
EPIC Insurance Midwest	PHONE (A/C, No, Ext): 317-706-9828				
P.O. Box 80159	E-MAIL ADDRESS: jennifer.collins@epicbrokers.com				
Indianapolis, IN 46280	INSURER(S) AFFORDING COV	NAIC#			
	INSURER A: The Netherlands Insurance Compa	24171			
INSURED	INSURER B : Indiana Insurance Company	22659			
MSD of Wayne Township	INSURER C : Peerless Insurance Company	24198			
Marion County Indiana 1220 South High School Road Indianapolis, IN 46241	INSURER D:				
	INSURER E :				
	INSURER F:				

	Indianapolis, IN 46241							
CO	/ERAGES CER	TIFICATE	NUMBER:	REVISION NUMBER:				
TH IN CI	COVERAGES CERTIFICATE NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.							
INSR LTR	TYPE OF INSURANCE	ADDL SUBR		POLICY EFF (MM/DD/YYYY)		LIMIT	s	
A	CLAIMS-MADE X OCCUR	X	CBP8488211			EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person)	\$1,000,000 \$500,000 \$15,000	
	GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO- DECT LOC OTHER:					PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	\$1,000,000 \$2,000,000 \$2,000,000 \$	
С	X ANY AUTO OWNED AUTOS ONLY HIRED AUTOS ONLY X AUTOS ONLY X AUTOS ONLY X AUTOS ONLY		BA9853550	06/01/2021	06/01/2022	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	\$1,000,000 \$ \$ \$ \$	
В	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION \$10000		CU8521081	06/01/2021	06/01/2022	EACH OCCURRENCE AGGREGATE	\$10,000,000 \$10,000,000 \$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A				PER STATUTE OTH- E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	\$ \$ \$	
A	Leased/Rented Eq.		CBP8488211	06/01/2021	06/01/2022	\$25,000		
	DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) CERTIFICATE HOLDER CANCELLATION							

CERTIFICATE HOLDER	CANCELLATION			
AES Indiana 2102 N. Illinois St. Indianapolis, IN 46202	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.			
Indianapolis, in 19292	AUTHORIZED REPRESENTATIVE			
	8 mm			

Exhibit 1F Miscellaneous Attachments

MSD WAYNE TOWNSHIP SCHOOLS - NOV. 11, 2021

GENERAL NOTES



MSD WAYNE TOWNSHIP SCHOOLS EMERGENCY SERVICES EDUCATION CENTER ENERGY REDUCTION PROJECTS AES INDIANA INTERCONNECTION SE 242 NORTH HIGH SCHOOL ROAD INDIANAPOLIS, INDIANA 46214 NOV. 11, 2021

