

¹ DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"x36" PAPER.

DIVOCSG 17 LLC

Equipment Specifications

The 1.000MW solar PV project is rated to 1.000 MW AC/ 1.497 MW DC.

The system consists of the following:

A. 3744 modules (REC Solar REC400TP 72, 400W, 1500V modules) feed into inverters.

B. 8 inverters (CHINT SCA125KTL-DO/US, 600 inverter W/integrated DC and AC disconnects) which feed into Low Voltage Switchgear

C. Low voltage switchgear- 1600A, 480V, 3 phase, 4 wire, 3R which is connected to the 480V side of the step-up transformer.

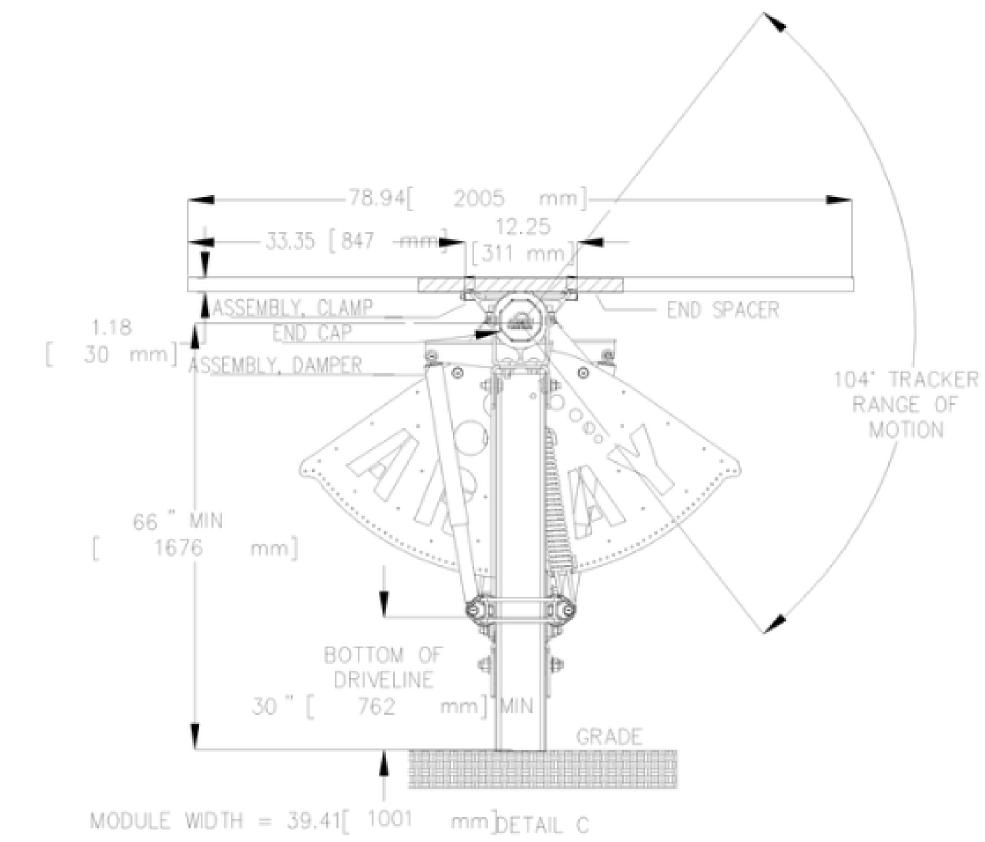
D. Step up three phase pad mounted transformer- 1.5MVA, 12.47kV:480V, 5.32%

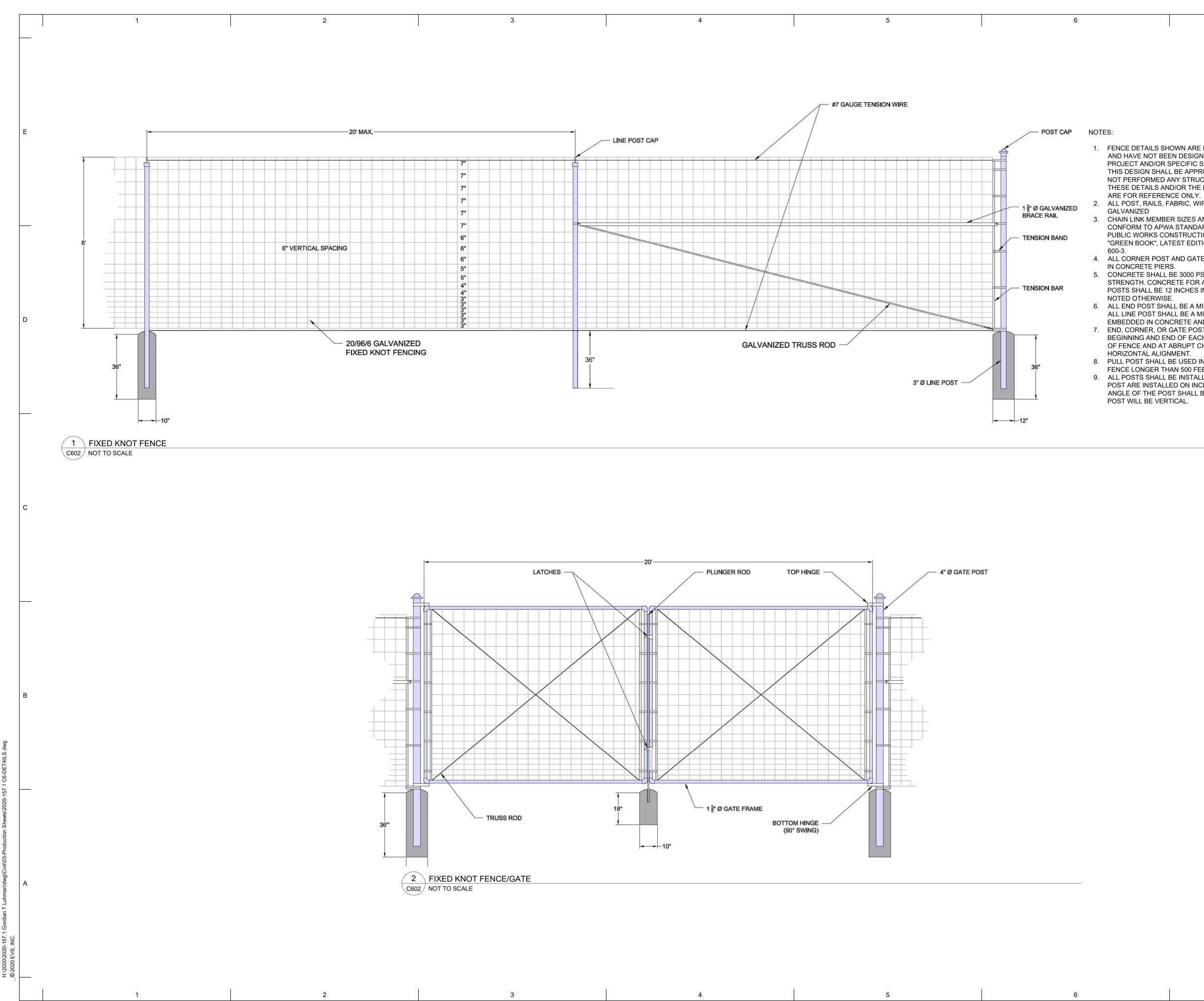
E. Zig-zag grounding transformer on the 480V side

The 3744 modules are divided into strings and each string has 25 modules.

 \cdot Each inverter has up to 20 string input of 25 modules each.

The following attachments are the single line electrical drawings and equipment specs as well as the data sheets for the manufacturers.





1. FENCE DETAILS SHOWN ARE INDUSTRY STANDARD DETAILS AND HAVE NOT BEEN DESIGNED SPECIFICALLY FOR THIS PROJECT AND/OR SPECIFIC SOILS. ANY MODIFICATIONS TO THIS DESIGN SHALL BE APPROVED BY THE OWNER. EVS HAS NOT PERFORMED ANY STRUCTURAL DESIGN REGARDING THESE DETAILS AND/OR THE FOUNDATION. THE DETAILS

7

2. ALL POST, RAILS, FABRIC, WIRE, AND GATES SHALL BE

CHAIN LINK MEMBER SIZES AND MATERIALS SHALL CONFORM TO APWA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SPPWC OR THE "GREEN BOOK", LATEST EDITION, SECTIONS 206-6 AND

4. ALL CORNER POST AND GATE POST SHALL BE SECURED

5. CONCRETE SHALL BE 3000 PSI AVERAGE COMPRESSIVE STRENGTH. CONCRETE FOR ALL OTHER POSTS SHALL BE 12 INCHES IN DIAMETER, UNLESS

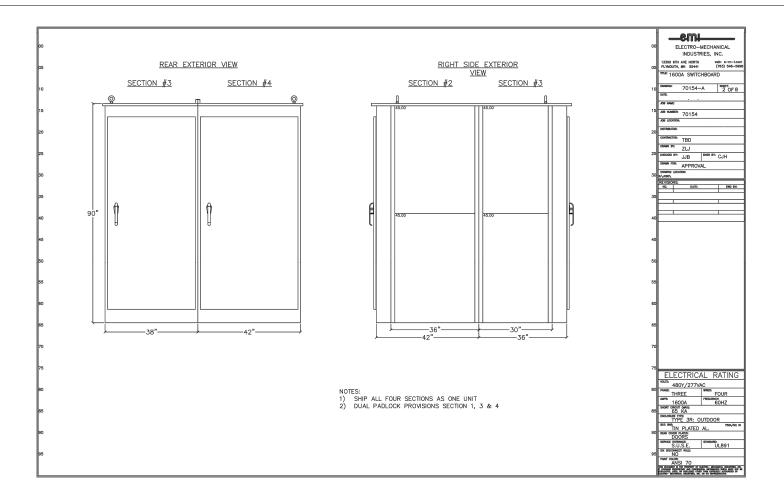
6. ALL END POST SHALL BE A MINIMUM OF 11' IN LENGTH.

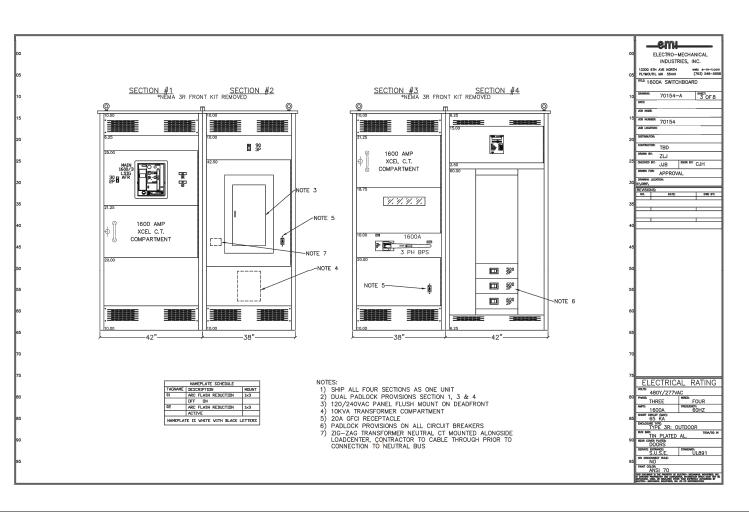
ALL LINE POST SHALL BE A MINIMUM OF 10'-6" LENGTH IF EMBEDDED IN CONCRETE AND 11'-6" IF PILE DRIVEN. 7. END, CORNER, OR GATE POSTS SHALL BE SET AT THE BEGINNING AND END OF EACH CONTINUOUIS LENGTH OF FENCE AND AT ABRUPT CHANGES IN VERTICAL OR

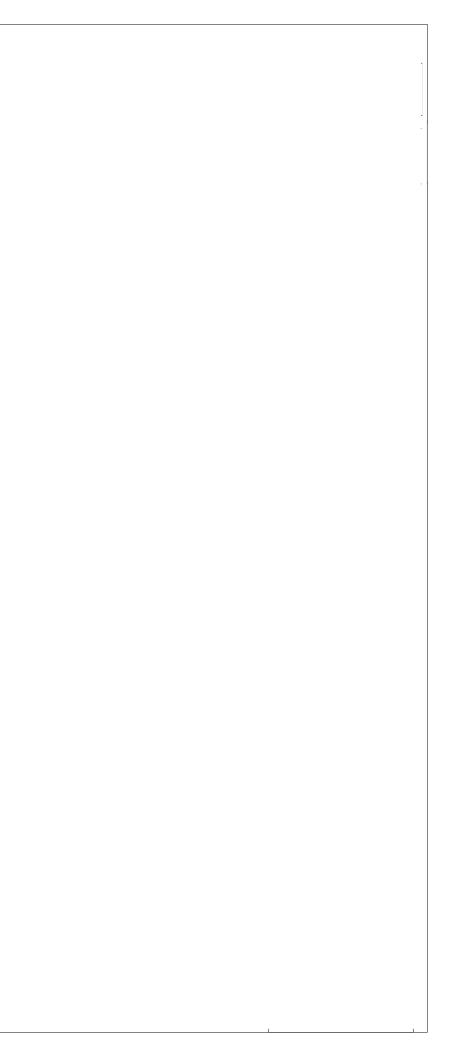
HORIZONTAL ALIGNMENT. 8. PULL POST SHALL BE USED IN ALL STRAIGHT SPANS OF FENCE LONGER THAN 500 FEET.

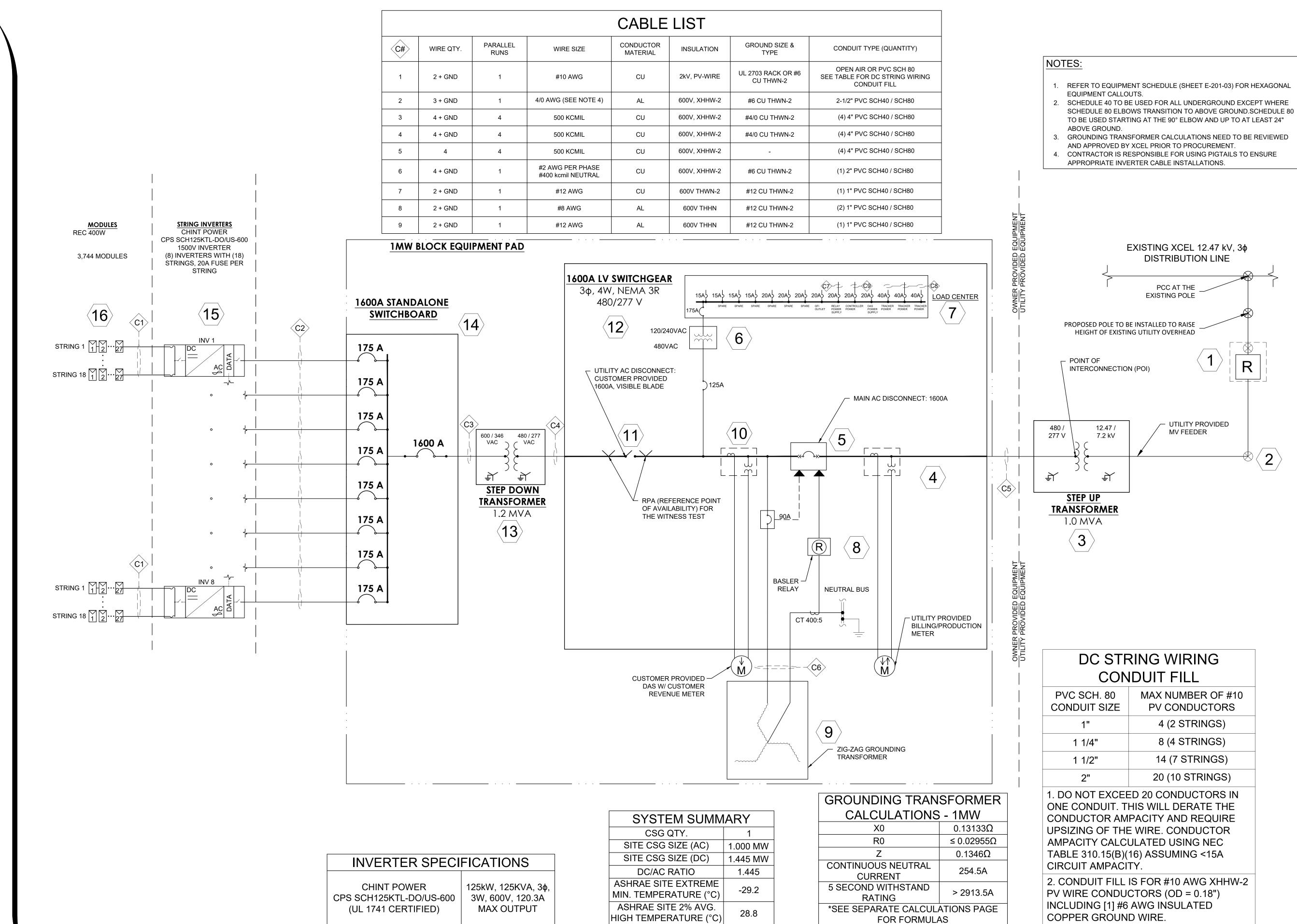
9. ALL POSTS SHALL BE INSTALLED VERTICALLY. WHERE POST ARE INSTALLED ON INCLINED SURFACES, THE ANGLE OF THE POST SHALL BE ADJUSTED SO THAT THE POST WILL BE VERTICAL.

SHEET NAME SITE DETAILS









	INVERTER SPECI	FICATIONS
	CHINT POWER CPS SCH125KTL-DO/US-600 (UL 1741 CERTIFIED)	125kW, 125KVA, 3 3W, 600V, 120.3 MAX OUTPUT
I		

SHEET **ONE LINE & CABLE LIST**

TRING WIRING					
ONDUIT FILL					
) 'E	MAX NUMBER OF #10 PV CONDUCTORS				
	4 (2 STRINGS)				
8 (4 STRINGS)					
14 (7 STRINGS)					
	20 (10 STRINGS)				
CEED 20 CONDUCTORS IN T. THIS WILL DERATE THE AMPACITY AND REQUIRE THE WIRE. CONDUCTOR ALCULATED USING NEC (B)(16) ASSUMING <15A ACITY.					
ILL IS FOR #10 AWG XHHW-2 DUCTORS (OD = 0.18") #6 AWG INSULATED UND WIRE.					

NOTES:

- 1. POSSIBLE EXTRA CONTROL CONDUITS WILL BE REQUIRED IN THE CONCRETE DEPENDANT ON
- THE FINAL LOCATION OF THE XCEL REQUIRED COMMUNICATION EQUIPMENT. 2. CONDUIT RUNS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. ACTUAL RUNS WILL VARY WITH
- SITE CONDITIONS AND EQUIPMENT LAYOUT.3. MV TRANSFORMER LOCATION TO BE DETERMINED BY XCEL.

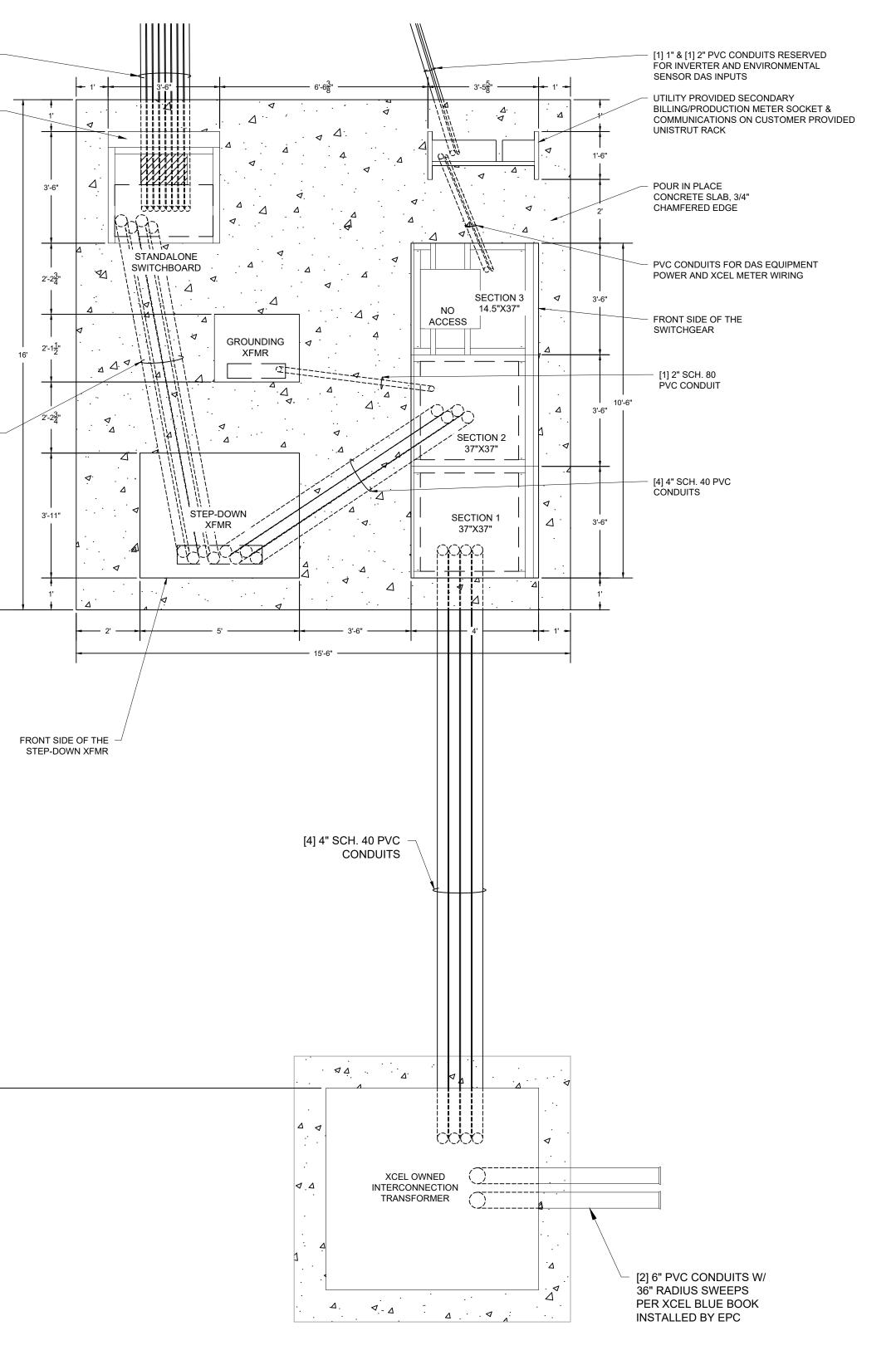
[8] 2-1/2" SCH. 40 PVC FOR INVERTER WIRING TO STAND ALONE SWITCHBOARD

FRONT SIDE OF THE STAND -ALONE SWITCHBOARD

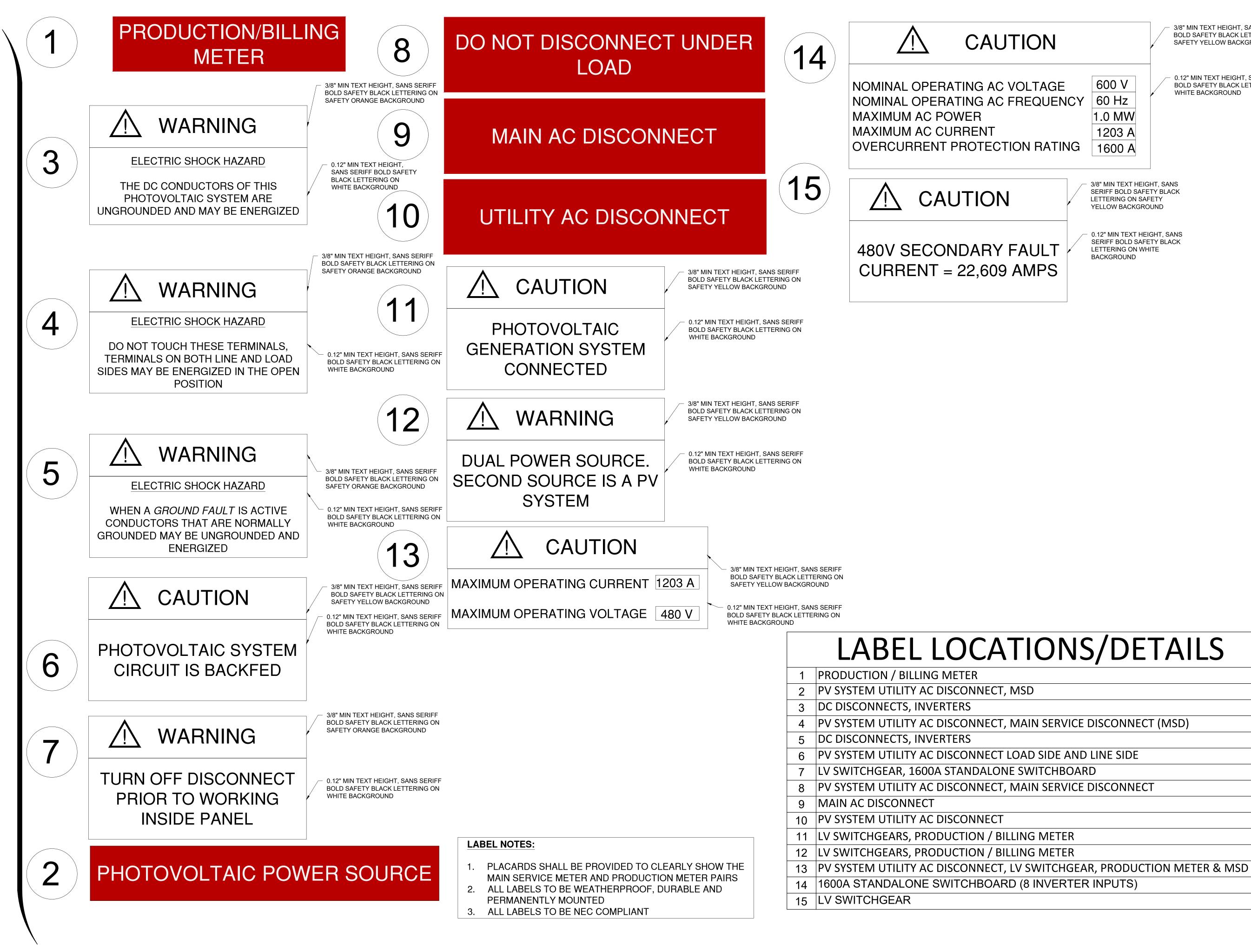
> [4] 4" SCH. 40 PVC — CONDUITS



EQUIPMENT PAD PLAN VIEW Scale: 1" = 2'-6"



SHEET EQUIPMENT PAD LAYOUT



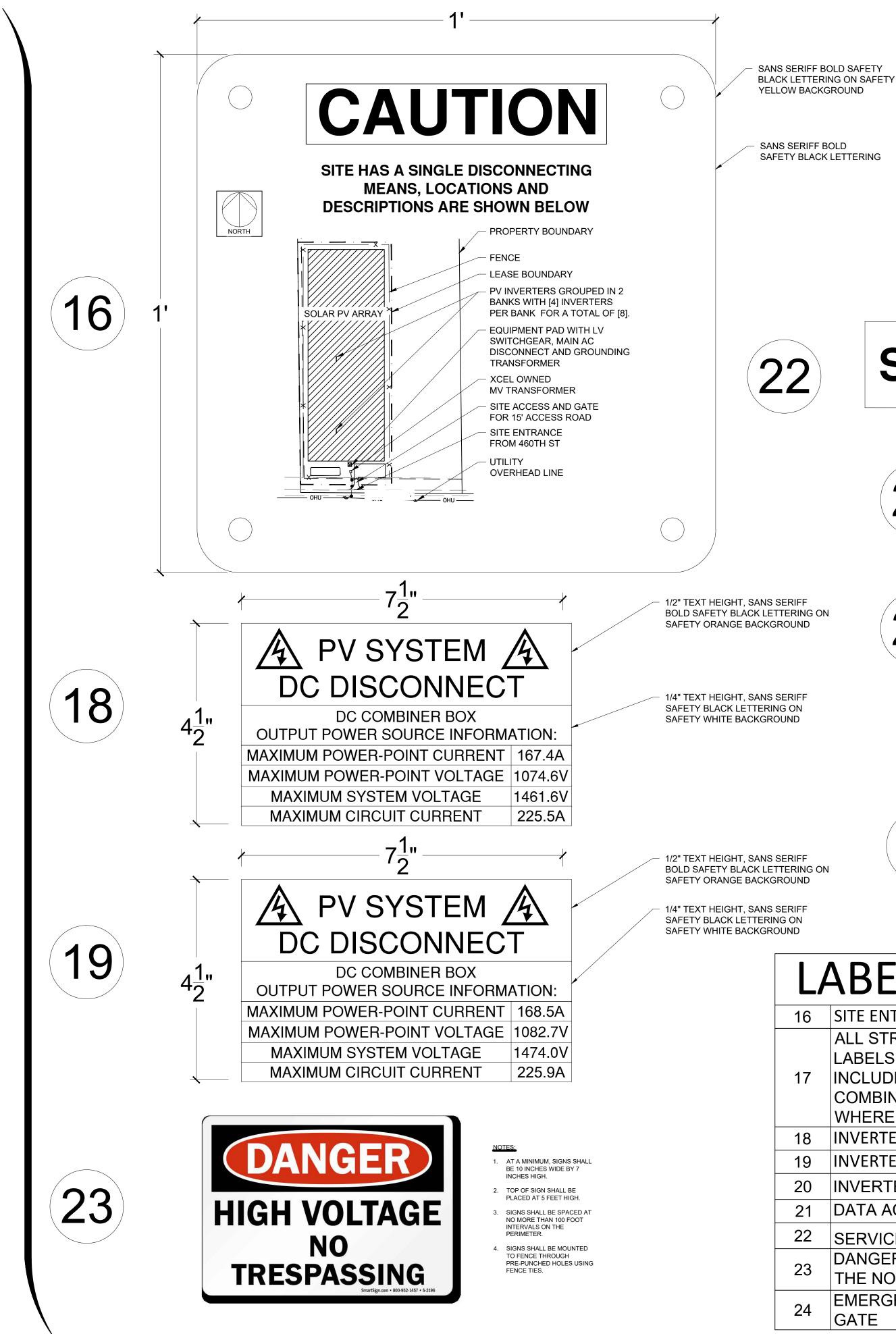
3/8" MIN TEXT HEIGHT, SANS SERIFF BOLD SAFETY BLACK LETTERING ON SAFETY YELLOW BACKGROUND

0.12" MIN TEXT HEIGHT, SANS SERIFF BOLD SAFETY BLACK LETTERING ON WHITE BACKGROUND

3/8" MIN TEXT HEIGHT, SANS SERIFF BOLD SAFETY BLACK LETTERING ON SAFETY YELLOW BACKGROUND

0.12" MIN TEXT HEIGHT, SANS SERIFF BOLD SAFETY BLACK LETTERING ON WHITE

> SHEET **XCEL LABELS &** SIGNS





SANS SERIFF BOLD SAFETY BLACK LETTERING

STRING NAMING NOTES:

- 1. STRING NAME:
- 2. SEE SHEET E-302-01 FOR MODULE STRING WIRING DETAILS.

- INVERTER # (1-8)

– INPUT # (1-20)

STR 1-1 +----- STRING POLARITY (+ / -)

SERVICE DISCONNECT



21

INV 1

DAS



LABEL LOCATIONS/DETAILS

16	SITE ENTRANCE, [1] TOTAL
	ALL STRINGS TO BE MARKED WITH STRING IDENTIFICATION LABELS WITHIN 6" OF HOME RUN WIRE TERMINATIONS. THIS INCLUDES ONE LABEL AT HOME RUN TERMINATION IN DC
17	COMBINER/INVERTER AND ONE IDENTIFICATION LABEL LOCATED WHERE HOME RUN CONNECTS TO FIRST MODULE LEAD.
18	INVERTER WITH INTEGRATED COMBINER BOX,[18 STRINGS] [6] TOTAL
19	INVERTER WITH INTEGRATED COMBINER BOX, [18 STRINGS] [3] TOTAL
20	INVERTER IDENTIFIER LABELS [8] TOTAL
21	DATA ACQUISITION SYSTEM IDENTIFIER LABEL, [1] TOTAL
22	SERVICE DISCONNECT
23	DANGER SIGN: ONE TO BE PLACED ON EACH GATE AND ONE ON THE NORTH, SOUTH, EAST AND WEST FACING FENCE SECTIONS
24	EMERGENCY CONTACT SIGN: ONE TO BE PLACED ON ENTRANCE GATE

LABEL NOTES:

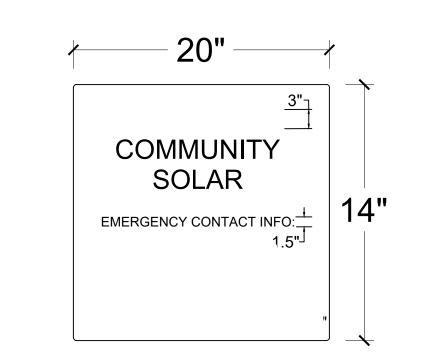
- **REQUIREMENTS:**

- WRITTEN AND SHALL BE LEGIBLE.
- ENVIRONMENT INVOLVED. ELECTRICAL EQUIPMENT.

- SHALL BE SPECIFIED FOR EACH SOURCE.
- (1) MAXIMUM VOLTAGE
- (2) MAXIMUM CIRCUIT CURRENT CIRCUIT CURRENT.
- DC-TO-DC CONVERTER (IF INSTALLED)
- ACCORDANCE WITH 705.10.
- COMPLY WITH 110.21(B).

THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE SHALL NOT EXCEED AMPACITY OF BUSBAR.

- 10. SAFETY SIGNS SHALL BE UV RESISTANT.



1.[2017 NEC 110.16(A)] ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT IS IN OTHER THAN DWELLING UNITS, AND IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL MEET THE REQUIREMENTS IN 110.21(B) AND SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

2.[2017 NEC 110.21(B)] WHERE CAUTION, WARNING, OR DANGER SIGNS OR LABELS ARE REQUIRED BY THIS (NEC 2017) CODE, THE LABELS SHALL MEET THE FOLLOWING

1) THE MARKING SHALL WARN OF THE HAZARDS USING EFFECTIVE WORDS, COLORS, SYMBOLS OR ANY COMBINATION THEREOF

2) THE LABEL SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN.

*EXCEPTION TO (2): PORTIONS OF LABELS OR MARKINGS THAT ARE VARIABLE, OR THAT COULD BE SUBJECT TO CHANGES, SHALL BE PERMITTED TO BE HAND

3) THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE

*INFORMATION NOTE; ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS, PROVIDES GUIDELINES FOR SUITABLE FONT SIZES, WORDS, COLORS, SYMBOLS, AND LOCATION REQUIREMENTS FOR LABELS AS WELL AS GUIDELINES FOR THE DESIGN AND DURABILITY OF SAFETY SIGNS AND LABELS FOR APPLICATION TO

3.[2017 NEC 690.13(B)] EACH PV SYSTEM DISCONNECTING MEANS SHALL PLAINLY INDICATE WHETHER IN THE OPEN (OFF) OR CLOSED (ON) POSITION AND BE PERMANENTLY MARKED "PV SYSTEM DISCONNECT" OR EQUIVALENT. ADDITIONAL MARKINGS SHALL BE PERMITTED BASED UPON THE SPECIFIC SYSTEM CONFIGURATION. FOR PV SYSTEM DISCONNECTING MEANS WHERE THE LINE AND LOAD TERMINALS MAY BE ENERGIZED IN THE OPEN POSITION, THE DEVICE SHALL BE MARKED WITH THE FOLLOWING WORDS OR EQUIVALENT:

WARNING ELECTRIC SHOCK HAZARD TERMINAL ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION THE WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 110.21(B)

4.[2017 NEC 690.53] A PERMANENT LABEL FOR THE DC PV POWER SOURCE INDICATING THE INFORMATION SPECIFIED IN (1) THROUGH (3) SHALL BE PROVIDED BY THE INSTALLER AT DC PV SYSTEM DISCONNECTION MEANS AND AT EACH DC EQUIPMENT DISCONNECTING MEANS REQUIRED BY 690.15. WHERE A DISCONNECTING MEANS HAS MORE THAN ONE DC PV POWER SOURCE, THE VALUES IN 690.53(1) THROUGH (3)

*INFORMATION NOTE TO (1): SEE 690.7 FOR VOLTAGE.

*INFORMATION NOTE TO (2): SEE 690.8(A) FOR CALCULATION OF MAXIMUM

(3) MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR

5.[2017 NEC 690.54] ALL INTERACTIVE SYSTEM(S) POINTS OF INTERCONNECTION WITH OTHER SOURCES SHALL BE MARKED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTING MEANS AS A POWER SOURCE AND WITH THE RATED AC OUTPUT CURRENT AND THE NOMINAL OPERATING AC VOLTAGE.

6.[2017 NEC 690.56(B)] PLAQUES AND DIRECTORIES SHALL BE INSTALLED IN

7.[2017 NEC 705.10] A PERMANENT PLAQUE OR DIRECTORY DENOTING THE LOCATION OF ALL ELECTRIC POWER SOURCE DISCONNECTING MEANS ON OR IN THE PREMISES SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION AND AT THE LOCATIONS(S) OF THE SYSTEM DISCONNECT(S) FOR ALL ELECTRIC POWER PRODUCTION SOURCES CAPABLE OF BEING INTERCONNECTED. THE MARKING SHALL

*EXCEPTION: INSTALLATION WITH LARGE NUMBERS OF POWER PRODUCTION SOURCES SHALL BE PERMITTED TO BE DESIGNATED BY GROUPS.

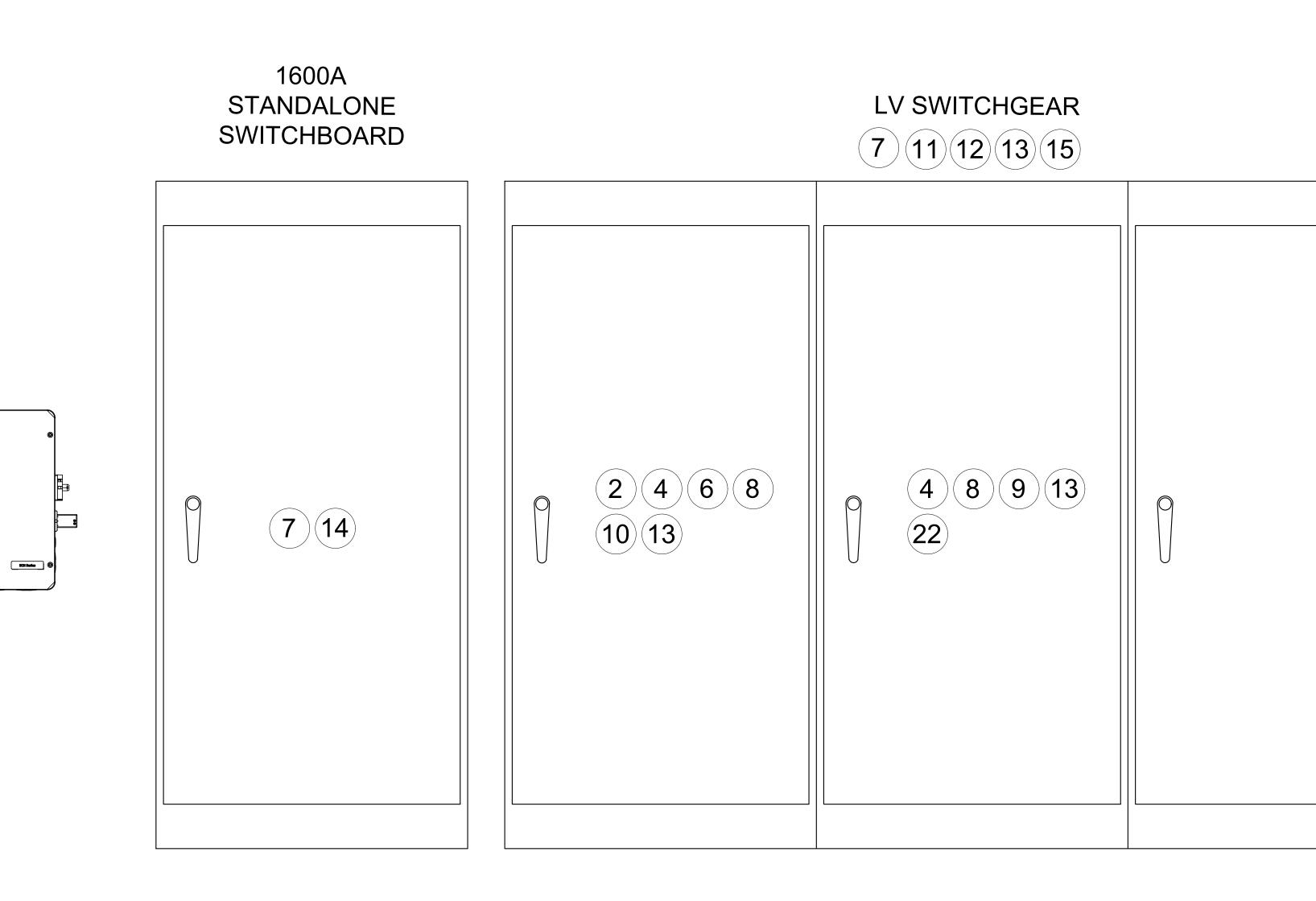
8.[2017 NEC 705.12(B)(2)(3)(C)] THE SUM OF THE AMPERE RATINGS OF ALL OVERCURRENT DEVICES ON PANELBOARDS, BOTH LOAD AND SUPPLY DEVICES, EXCLUDING THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR, SHALL NOT EXCEED THE AMPACITY OF THE BUSBAR. THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED THE RATING OF THE BUSBAR. PERMANENT WARNING LABELS SHALL BE APPLIED TO DISTRIBUTION EQUIPMENT DISPLAYING THE FOLLOWING OR EQUIVALENT WORDING:

WARNING:

THE WARNING SIGN(S) OR LABELS(S) SHALL COMPLY WITH 110.21(B). 9.[2017 NEC 705.12(B)(3)] EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTOR SUPPLIED FROM MULTIPLE SOURCES SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES.

11. IDENTIFIER LABELS SHALL BE AFFIXED TO INVERTERS, COMBINER BOXES, STEP-UP TRANSFORMERS, AND DEAD BREAK JUNCTION BOXES, AS PER NUMBERS INDICATED ON THE PLANS USING THE SIGNS ON THIS PAGE AS REFERENCE.

SHEET NEC 2017 LABELS & SIGNS



CPS 125kW

INVERTER

Øgps

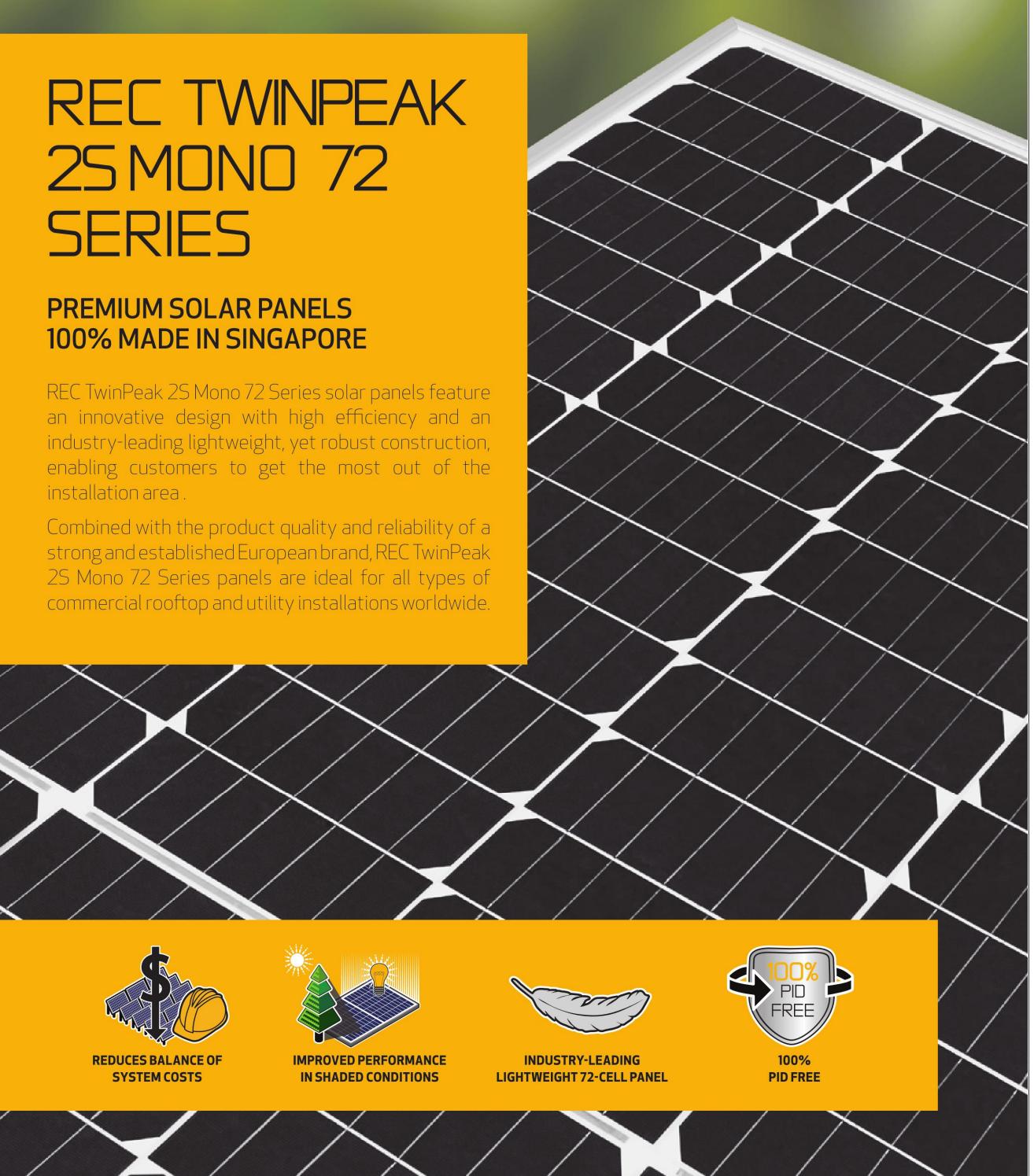
- • • • •

3 5 18 19

(20)

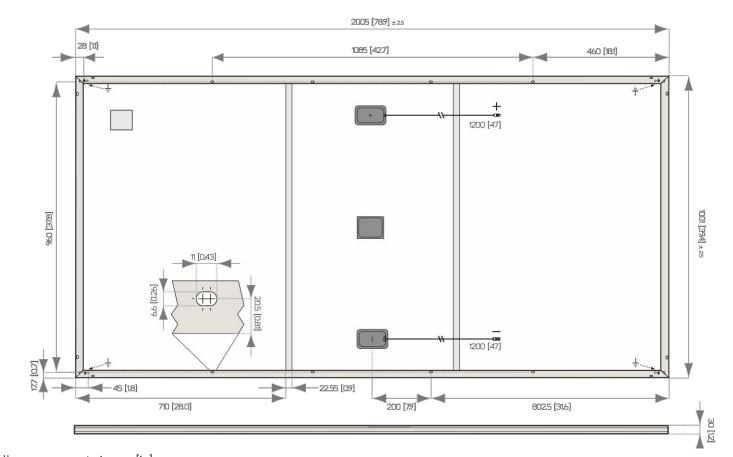


SOLAR'S MOST TRUSTED



W REC

REC TWINPEAK 25 MONO 72 SERIES



ELECTRICAL DATA @ STC			Product cod	e*: RECxxx	TP2SM 72		
Nominal Power - P _{MPP} (Wp)	370	375	380	385	390	395	400
Watt Class Sorting-(W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - $V_{MPP}(V)$	39.8	40.1	40.3	40.5	40.7	40.9	41.1
Nominal Power Current - I _{MPP} (A)	9.30	9.36	9.43	9.51	9.58	9.66	9.73
Open Circuit Voltage - V _{oc} (V)	47.0	47.4	48.0	48.6	49.2	49.8	50.4
Short Circuit Current - I _{sc} (A)	10.02	10.04	10.05	10.07	10.08	10.09	10.1
Panel Efficiency (%)	18.4	18.7	18.9	19.2	19.4	19.7	20.0

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of $V_{oc} \& I_{sc} \pm 3\%$ within one watt class. At low irradiance of 200 W/m² at least 95% of the STC module efficiency will be achieved. *Where xxx indicates the nominal power class (P_{MPP}) at STC indicated above, and can be followed by the suffix XV for 1500 V rated modules.

ELECTRICAL DATA @ NMOT		Pı	oduct code	*: RECxxx1	P2SM 72		
Nominal Power-P _{MPP} (Wp)	276	280	283	287	290	295	298
Nominal Power Voltage - V _{MPP} (V)	37.1	37.3	37.5	37.7	37.9	38.1	38.3
Nominal Power Current - I _{MPP} (A)	7.44	7.49	7.54	7.60	7.66	7.73	7.78
Open Circuit Voltage - V _{oc} (V)	43.7	44.1	44.7	45.3	45.8	46.4	46.9
Short Circuit Current - I _{sc} (A)	8.02	8.03	8.04	8.06	8.06	8.07	8.08

Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). *Where xxx indicates the nominal power class (P_{MPP}) at STC indicated above, and can be followed by the suffix XV for 1500 V rated modules.

RTIFICATION



UL 1703, Fire classification: Type 1 (1500 V XV): Type 2 (1000 V); IEC 61215, IEC 61730, IEC 62804 (PID), IEC 62716 (Ammonia), IEC 61701 (Salt Mist level 6), ISO 9001: 2015, ISO 14001: 2004, OHSAS 18001: 2007

VARRANTY

20 year product warranty 25 year linear power output warranty Max. performance degression of 0.5% p.a. from 97.5% in year 1 See warranty conditions for further details.

20,0%	EFFICIENCY	
20	YEAR PRODUCT WARRANTY	
25	YEAR LINEAR POWER OUTPUT WARRANTY	
GENERAL DATA		
Cell type:	144 half-cut monocrystalline PERC cells 6 strings of 24 cells in series	
Glass:	3.2 mm solar glass with anti-reflection surface treatment	
Backsheet: Frame: Support bars:	Highly resistant polymeric construction Anodized aluminum Anodized aluminum	
Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790	
Cable:	4 mm ² solar cable, 1.2 m + 1.2 m in accordance with EN 50618	
Connectors:	Stäubli MC4-Evo2 PV-KBT4-EVO/PV-KST4-EVO (4 mm ²) cordance with IEC 62852, IP68 only when connected	
Origin:	Made in Singapore	
MAXIMUM RATIN	GS	
Operational tempe	rature: -40+85°C	
Maximum system		
Design load (+): sno Maximum test load		ut notice
Design load (-): wind Maximum test load	I(-): 244 kg/m² (2400 Pa)	Specifications subject to change without notic
Max series fuse rat		o char
Max reverse currer	+ Calculated using a safety factor of 1.5	oject to
	See installation manual for mounting instructions	ns sut
TEMPERATURE R	ATINGS	catio
	Operating Temperature: 44.6°C (±2°C)	oecifi
Temperature coe		S
Temperature coe		19
Temperature coe *The	fficient of I _{sc} : 0.04 %/°C temperature coefficients stated are linear values	PM-DS-07-23 Rev-B 08.19
MECHANICAL DAT	Ά	7-231
Dimensions:	78.9" x 39.4" x 1.2" (2005 x 1001 x 30 mm)	DS-0
Area:	21.6 ft ² (2.01 m ²)	
Weight:	48.5 lbs (22 kg)	Ref



www.recgroup.com

SHEET MODULE DATASHEET



100/125kW, 1500Vdc String Inverters for North America



The 100 & 125kW high power CPS three phase string inverters are designed for ground mount applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 99.1% peak and 98.5% 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 100/125kW products ship with the Standard or Centralized Wire-box, each fully integrated and separable with AC and DC disconnect switches. The Standard Wire-box inlcudes touch safe fusing for up to 20 strings. The CPS Flex Gateway enables communication, controls and remote product upgrades.

Key Features

- NFPA 70, NEC 2014 and 2017 compliant
- Touch safe DC Fuse holders adds convenience and safety
- CPS Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 1 MPPT with 20 fused inputs for maximum flexibility
- Copper and Aluminum compatible AC connections
- 100/125KTL Standard Wire-box FCC This device complies with part 15 of the FCC Rules © CHINT POWER SYSTEMS AMERICA 2019/09-MKT NA
- NEMA Type 4X outdoor rated, tough tested enclosure
- Advanced Smart-Grid features (CA Rule 21 certified)
- kVA Headroom yields 100kW @ 0.9PF and 125kW @ 0.95PF
- Generous 1.5 DC/AC Inverter Load Ratio
- Separable wire-box design for fast service
- Standard 5 year warranty with extensions to 20 years



100/125KTL Centralized Wire-box

6800 Koll Center Parkway, Suite 235 Pleasanton, CA 94566 Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com

SELECTED WIRE-BOX

Datasheet

Chint Power Systems America



AC OutputRated AC Output PowerMax. AC Output Power2Rated Output VoltageOutput Voltage Range3Grid Connection Type4Max. AC Output Current @600VacRated Output FrequencyOutput Frequency Range3Power FactorCurrent THDMax. AC Output Current Ontribution (1-cycle RMS)Max. Fault Current Contribution (1-cycle RMS)Max. Fault Current Contribution (1-cycle RMS)Max. OCPD RatingAC Disconnection TypeAC Surge ProtectionSystemTopologyMax. EfficiencyStand-by / Night ConsumptionEnclosure Protection DegreeCooling MethodOperating Temperature RangeNon-Operating Temperature RangeNon-Operating Temperature RangeOperating HumidityOperating AltitudeAudible NoiseDisplay and CommunicationUser Interface and DisplayInverter Monitoring	150kW 1500V 860-1450Vdc 900V / 250W 1 870-1300Vdc 220A 20 PV source circuits, pos. & neg. fused (1 PV output circuit, 1-2 terminations per pole, non-Load-break rated DC swi Type II MOV (with indicator/remote signaling), Up 100kW 100kV 100kVA (111KVA @ PF>0.9) 600Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3% 41.47A 150A AC Maintenance switcl Type II MOV (with indicator/remote signaling), Up	
Max. DC Input VoltageImage: Comparing DC Input Voltage RangeStart-up DC Input Voltage / PowerImage: Comparing Comp	1500V 860-1450Vdc 900V / 250W 1 870-1300Vdc 20 PV source circuits, pos. & neg. fused (1 PV output circuit, 1-2 terminations per pole, non- Load-break rated DC swi Type II MOV (with indicator/remote signaling), Up 100kW 100kV (111KVA @ PF>0.9) 600Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3% 41.47A 150A AC Maintenance switch Type II MOV (with indicator/remote signaling), Up	
Max. DC Input VoltageImage: Comparing DC Input Voltage RangeStart-up DC Input Voltage / PowerImage: Comparing Comp	1500V 860-1450Vdc 900V / 250W 1 870-1300Vdc 20 PV source circuits, pos. & neg. fused (1 PV output circuit, 1-2 terminations per pole, non- Load-break rated DC swi Type II MOV (with indicator/remote signaling), Up 100kW 100kV (111KVA @ PF>0.9) 600Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3%	
Operating DC Input Voltage RangeStart-up DC Input Voltage / PowerNumber of MPP TrackersMPPT Voltage Range1Max. PV Input Current (Isc x1.25)Number of DC InputsDC Disconnection TypeDC Surge ProtectionAC OutputRated AC Output PowerMax. AC Output Power2Rated AC Output VoltageOutput Voltage Range3Grid Connection Type4Max. AC Output FrequencyOutput Voltage Range3Power FactorCurrent THDMax. Fault Current Contribution (1-cycle RMS)Max. OCPD RatingAC Disconnection Type4AC Surge ProtectionSystemTopologyMax. EfficiencyStand-by / Night ConsumptionEnclosure Protection DegreeCooling MethodOperating Temperature Range5Operating Temperature Range5Operating Temperature Range5Operating AltitudeAudible NoiseDisplay and CommunicationUser Interface and DisplayInverter Monitoring	900V / 250W 1 870-1300Vdc 20 PV source circuits, pos. & neg. fused (1 PV output circuit, 1-2 terminations per pole, non- Load-break rated DC swit Type II MOV (with indicator/remote signaling), Up 100kW 100kV (111KVA @ PF>0.9) 600Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3%	
Start-up DC Input Voltage / PowerNumber of MPP TrackersMPPT Voltage Range1Max. PV Input Current (Isc x1.25)Number of DC InputsDC Disconnection TypeDC Surge ProtectionAC OutputRated AC Output PowerMax. AC Output Power2Rated AC Output VoltageOutput Voltage Range3Grid Connection Type4Max. AC Output FrequencyOutput Voltage Range3Output Voltage Range3Grid Connection Type4Max. AC Output FrequencyOutput Frequency Range3Power FactorCurrent THDMax. COPD RatingAC Disconnection TypeAC Surge ProtectionSystemTopologyMax. EfficiencyStand-by / Night ConsumptionEnclosure Protection DegreeCooling MethodOperating Temperature Range5Operating Temperature Range5Operating AltitudeAudible NoiseDisplay and CommunicationInverter Monitoring	1 870-1300Vdc 220A 20 PV source circuits, pos. & neg. fused (1 PV output circuit, 1-2 terminations per pole, non- Load-break rated DC swi Type II MOV (with indicator/remote signaling), Up 100kW 100kVA (111KVA @ PF>0.9) 600Vac 528-660Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3% 41.47A 150A AC Maintenance switch Type II MOV (with indicator/remote signaling), Up	
Number of MPP Trackers MPPT Voltage Range ¹ Max. PV Input Current (Isc x1.25) Number of DC Inputs DC Disconnection Type DC Surge Protection AC Output Rated AC Output Power ² Rated AC Output Power ² Rated Output Voltage Output Voltage Range ³ Grid Connection Type ⁴ Max. AC Output Frequency Output Frequency Range ³ Power Factor Current THD Max. CPD Rating AC Disconnection Type AC Surge Protection System Topology Max. Efficiency Stand-by / Night Consumption Enclosure Protection Degree Cooling Method Operating Temperature Range ⁵ Operating Temperature Range Non-Operating Temperature Range ⁵ Operating Altitude Audible Noise Display and Communication User Interface and Display Inverter Monitoring	1 870-1300Vdc 220A 20 PV source circuits, pos. & neg. fused (1 PV output circuit, 1-2 terminations per pole, non- Load-break rated DC swi Type II MOV (with indicator/remote signaling), Up 100kW 100kVA (111KVA @ PF>0.9) 600Vac 528-660Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3% 41.47A 150A AC Maintenance switch Type II MOV (with indicator/remote signaling), Up	
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Number of DC InputsNumber of DC InputsDC Disconnection TypeDC Surge ProtectionAC OutputRated AC Output Power ² Rated Output VoltageOutput Voltage Range ³ Grid Connection Type ⁴ Max. AC Output ErequencyOutput Frequency Range ³ Power FactorCurrent THDMax. AC ODP RatingAC Disconnection TypeAC Disconnection TypeMax. Fault Current Contribution (1-cycle RMS)Max. OCPD RatingAC Disconnection TypeAC Surge ProtectionSystemTopologyMax. EfficiencyCEC EfficiencyStand-by / Night ConsumptionEnclosure Protection DegreeCooling MethodOperating Temperature Range ⁵ Operating Temperature RangeNon-Operating Temperature Range ⁵ Operating AltitudeAudible NoiseDisplay and CommunicationUser Interface and DisplayInverter Monitoring	20 PV source circuits, pos. & neg. fused (1 PV output circuit, 1-2 terminations per pole, non-Load-break rated DC switter Type II MOV (with indicator/remote signaling), Up 100kW 100kVA (111KVA @ PF>0.9) 600Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3%	
DC Disconnection TypeImage: Constraint of the section of	1 PV output circuit, 1-2 terminations per pole, non- Load-break rated DC swit Type II MOV (with indicator/remote signaling), Up 100kW 100kVA (111KVA @ PF>0.9) 600Vac 528-660Vac 528-660Vac 3Φ / PE / N (Neutral optio 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3% 41.47A 150A AC Maintenance switc Type II MOV (with indicator/remote signaling), Up	
DC Surge Protection AC Output Rated AC Output Power ² Image: Comparison of the state of the	Type II MOV (with indicator/remote signaling), Up 100kW 100kVA (111KVA @ PF>0.9) 600Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3%	
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Rated AC Output PowerImage: Section of the section of th	100kVA (111KVA @ PF>0.9) 600Vac 528-660Vac 3Φ / PE / N (Neutral option 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3%	
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Rated Output VoltageImage of the state of the	600Vac 528-660Vac 3Φ / PE / N (Neutral optio 96.2/106.8A 60Hz 57-63Hz >0.99 (±0.8 adjustable) <3% 41.47A 150A AC Maintenance switch Type II MOV (with indicator/remote signaling), Up	
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Max. Efficiency CEC Efficiency Stand-by / Night Consumption Environment Enclosure Protection Degree Cooling Method Operating Temperature Range Non-Operating Temperature Range ⁵ Operating Humidity Operating Altitude Audible Noise Display and Communication User Interface and Display Inverter Monitoring	Transformerless	
CEC Efficiency Stand-by / Night Consumption Environment Enclosure Protection Degree Cooling Method Operating Temperature Range Non-Operating Temperature Range ⁵ Operating Humidity Operating Altitude Audible Noise Display and Communication User Interface and Display Inverter Monitoring		
Stand-by / Night ConsumptionEnvironmentEnclosure Protection DegreeCooling MethodOperating Temperature RangeNon-Operating Temperature Range ⁵ Operating HumidityOperating AltitudeAudible NoiseDisplay and CommunicationUser Interface and DisplayInverter Monitoring	99.1%	
Environment Enclosure Protection Degree Cooling Method Operating Temperature Range Non-Operating Temperature Range ⁵ Operating Humidity Operating Altitude Audible Noise Display and Communication User Interface and Display Inverter Monitoring	98.5%	
Enclosure Protection DegreeCooling MethodOperating Temperature RangeNon-Operating Temperature Range ⁵ Operating HumidityOperating AltitudeAudible NoiseDisplay and CommunicationUser Interface and DisplayInverter Monitoring	<4W	
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Cooling MethodOperating Temperature RangeNon-Operating Temperature Range5Operating HumidityOperating AltitudeAudible NoiseDisplay and CommunicationUser Interface and DisplayInverter Monitoring	NEMA Type 4X	
Operating Temperature Range Non-Operating Temperature Range ⁵ Operating Humidity Operating Altitude Audible Noise Display and Communication User Interface and Display Inverter Monitoring	Variable speed cooling fa	
Non-Operating Temperature Range ⁵ Operating Humidity Operating Altitude Audible Noise Display and Communication User Interface and Display Inverter Monitoring	-22°F to +140°F / -30°C to +60°C (derating	
Operating Humidity Image: Comparison of the sector of	-40°F to +158°F / -40°C to +70°C	
Operating Altitude Image: Comparison of the second sec	0-100%	
Audible Noise Display and Communication User Interface and Display Inverter Monitoring	8202ft / 2500m (no derati	
Display and Communication User Interface and Display Inverter Monitoring	<65dBA@1m and 25°C	
User Interface and Display Inverter Monitoring		
Inverter Monitoring	LED Indicators, WiFi + A	
	Modbus RS485	
Site Level Monitoring		
	CPS Flex Gateway (1 per 32 i	
Modbus Data Mapping	SunSpec/CPS	
Remote Diagnostics / FW Upgrade Functions	Standard / (with Flex Gate	
Mechanical		
Dimensions (WxHxD)	45.28x24.25x9.84in (1150x616x250mm) wi	
	39.37x24.25x9.84in (1000x616x250mm) with	
Weight Inve	erter: 121lbs / 55kg; Wire-box: 55lbs / 25kg (Standard Wire-	
Mounting / Installation Angle	15 - 90 degrees from horizontal (ver	
AC Termination	M8 Stud Type Terminal Block (Wire range: #6 - 3/0A	
DC Termination Bust	Screw Clamp Fuse Holder (Wire range: #12 - #6 Busbar, M8 PEMserts (Wire range: #1AWG - 250kcmil CU/A	
Fused String Inputs	15A fuses provided (Fuse values of 15	
Safety	יסי דומסט איטיעפע (דעשב אמועבא טרדב	
	UL1741-SA-2016, CSA-C22.2 NO.107.1-01, IEEE	
Safety and EMC Standard		
Selectable Grid Standard	IEEE 1547a-2014, CA Rule 21	
Smart-Grid Features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-F	
Warranty		
Standard ⁶	5 years	
Extended Terms	10, 15 and 20 years	

3) The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.4) Wye neutral-grounded, Delta may not be corner-grounded.

5) See user manual for further requirements regarding non-operating conditions.6) 5 year warranty effective for units purchased after October 1st, 2019.

	Technical Data
CPS SCH125KTL-DO/US-600	
187.5kW	
275A (Standard Wire-box) fused (Centralized Wire-box) itch	
p=2.5kV, In=20kA (8/20uS)	
125kW	
125kVA (132KVA @ PF>0.95)	
onal)	
120.3/127.2A	
>0.99 (±0.8 adjustable)	
175A	
h p=2.5kV, In=20kA (8/20uS)	
ans from +113°F / +45°C)	
C maximum	
ing)	
0	
PP	
nverters)	
way)	
ith Standard Wire-box	
h Centralized Wire-box ·box); 33lbs / 15kg (Centralized Wire-b	oox)
tical or angled) WG CU/AL, Lugs not supplied)	-
WG CU) - Standard Wire-box Lugs not supplied) - Centralized Wire	-box
5 or 20A allowed)	
E1547a-2014; FCC PART15	
, ISO-NE PF, Volt-VAr, Freq-Watt, Volt-Watt	

6KW PF <u>></u>0.95

SHEET INVERTER DATASHEET



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

AI CHINT POWER SYST	Manufacture	r: SHANGHAI CHINT POWER SYSTEM: CO., LTD No. 3857 Si Xian Rd, Songjiang District Shanghai, 201614
201614	Address:	
	Country	
hen		P.R.China
	Contact:	Sherry Wu
79 1222 ext:6303	Phone:	(86)21 3779 1222 ext:6206
79 1222 ext:6001	FAX:	(86)21 3779 1222 ext:6210
nen@chint.com	Email:	wuyp@chint.com
ing manne wanne we me		imited T
4522 Author		as J. Faterson, Certification Manager
	Intertek Test	hen@chint.com Email: ply Mark: Same as Manufacturer Intertek Testing Services Shanghai L 4522 Authorized by:

Intertek This document supersedes all previous Authorizations to Mark for the noted Report Number. This Guodiniterial supports excess in the previous Additional and the previous Additional agreement to the lead of the previous additional agreement is the start is the reaction agreement and addition of the agreement. Interview assume no behilfs to any party other than to be Climan to provide additional agreement to the start and the additional agreement is the start and the additional additionadditional additex additional additionaddi

Intertek Testing Services NA Inc. 545 East Algonquin Road, Arlington Heights, IL 60005 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Distributed Energy Resources, UL 1741, Second Edition, January 28, 2010 & Standard(s): General Use Power Supplies, CSA C22.2 No.107.1-01 dated September, 2001, Reaffirmed 2006 with Interim Certification Requirements for Utility-Interconnected Inverters - Technical Information Letter (T.I.L.) No. I-43, dated January 21, 2011

 Product:
 Grid-Tie PV Inverter

 Brand Name:
 CHINT POWER or CPS

 Models:
 CPS SC14KTL-DO/US-208, CPS SC14KTL-DO/CA-208

Grid-Tie PV Inverter

UL Standard for Inverters, Converters, Controllers and Interconnection System Equipment for Use With

Parameter name Description		Setting Range (Min, Default , Max)	Setting Range (Min, Default , Max
GridVoltMax1	Threshold value of Level 1 Max. grid voltage	{100.00%, 110.00% , 135.00%}	{100.00%, 110.00% , 135.00%}
VoltMaxTripTime1(S)	Threshold value of Level 1 Max. grid trip voltage	{0, 1.00 , 655}	{0, 12.50 , 655}
GridVoltMax2	Threshold value of Level 2 Max. grid voltage	{100.00%, 120.00% , 135.00%}	{100.00%, 120.00% , 135.00%}
VoltMaxTripTime2(S)	Threshold value of Level 2 Max. grid trip voltage	{0, 0.16 , 655}	{0, 0.16 , 655}
GridVoltMax3	Threshold value of Level 3 Max. grid voltage	{100.00%, 120.00% , 135.00%}	{100.00%, 120.00% , 135.00%}
VoltMaxTripTime3(S)	Threshold value of Level 3 Max. grid trip voltage	{0, 0.16 , 655}	{0, 0.16 , 655}
GridVoltMin1	Threshold value of Level 1 Min. grid voltage	{30.00%, 88.00%, 100.00%}	{30.00%, 88.00% , 100.00%}
VoltMinTripTime1(S)	Threshold value of Level 1 Min. grid trip voltage	{0, 2.0 , 655}	{0, 20.50 , 655}
GridVoltMin2	Threshold value of Level 2 Min. grid voltage	{30.00%, 60.00%, 100.00%}	{30.00% ,70.00% , 100.00%}
VoltMinTripTime2(S)	Threshold value of Level 2 Min. grid trip voltage	{0, 1.00 , 655}	{0, 10.50 , 655}
GridVoltMin3	Threshold value of Level 3 Min. grid voltage	{30.00%, 45.00%, 100. 0 0%}	{30.00%, 50.00% , 100.00%}
VoltMinTripTime3(S)	Threshold value of Level 3 Min. grid trip voltage	{0, 0.16 , 655}	{0, 1.5 , 655}

Table 4-3 Protection Parameters (IEEE1547 and Rule21)

IEEE1547

Rule21

CPS

Grid Voltage Protection



Table 4-3 Protection Parameters (IEEE1547 and Rule21) cont'd

Grid Frequency Pro	tection	IEEE1547	Rule21
Parameter name	Description	Setting Range (Min, Default, Max)	Setting Range (Min, Default, Max)
GridFrqMin1	Protection threshold value of Level 1 Min. grid frequency	{54, 59.5 , 60}	{45, 58.5 , 60}
FrqMinTripT1 (S)	Trip time of Level 1 Min. grid frequency	{0, 2 , 655}	{0, 299.50 , 655.00}
GridFrqMin2	Protection threshold value of Level 2 Min. grid frequency	{54, 57 , 60}	{45, 57 , 60}
FrqMinTripT2 (S)	Trip time of Level 2 Min. grid frequency	{0, 0.16 , 655}	{0, 0.16 , 655}
GridFrqMin3	Protection threshold value of Level 3 Min. grid frequency	{54, 57 , 60}	{54, 57 , 60}
FrqMinTripT3 (S)	Trip time of Level 3 Min. grid frequency	{0, 0.16 , 655}	{0, 0.16 , 655}
GridFrqMax1	Protection threshold value of Level 1 Max. grid frequency	{60, 60.5 , 65}	{50, 60.5 , 65}
FrqMaxTripT1(S)	Trip time of Level 1 Max. grid frequency	{0, 2 , 655}	{0, 299.50 , 655}
GridFrqMax2	Protection threshold value of Level 2 Max. grid frequency	{50, 62 , 65}	{50, 62 , 65}
FrqMaxTripT2(S)	Trip time of Level 2 Max. grid frequency	{0, 0.16 , 655}	{0, 0.16 , 655}
GridFrqMax3	Protection threshold value of Level 3 Max. grid frequency	{60, 62 , 65}	{50, 62 , 65}
FrqMaxTripT3(S)	Trip time of Level 3 Max. grid frequency	{0, 0 .16, 655}	{0, 0.16 , 655}

CSA Group **Certificate of Compliance**

Certificate:	2706862
Project:	70192962
Issued to:	REC Solar PTE. LTD. 20 Tuas South Avenue 14 Singapore, Singapore 6373

Master Contract: 260407 Date Issued: 2018-07-30

gapore 637312 SINGAPORE 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: Sean Jiang Sean Jiang

PRODUCTS CLASS - C531110 - POWER SUPPLIES-Photovoltaic Modules and Panels CLASS - C541100, POWEP SUPPLIES-Photovoltaic Modules and Panels - Certified to US Standards

CLASS	- C531190 - POWER SUPPLIES-Photovoltaic Modules and Panels - Certified to US Standards				
	Itaic Modules with maximum system voltage of 600 V dc or 1000 V dc or 1500 V dc, and Type 1 or Type 2 module ance. Model series as below:				
RECXXX	(xxx = 214 to 285 W), followed by PE, PE BLK or PE Z-LINK:				
RECxxx	(xxx = 245 to 260 W), followed by PE BLK2;				
RECXXX	(xxx = 245 to 270 W), followed by PE Z-LINK-S;				
	(xxx = 285 to 325 W), followed by PE 72, PE 72 BLK, PE 72 BLK2, PE 72 XV;				
RECxxx	(xxx = 260 to 300 W), followed by TP, TP BLK, TP IO, TP BLK IO;				
RECxxx (xxx = 260 to 330 W), followed by TP2, TP2 BLK, TP2 IQ, TP2 BLK IQ, TP2S, TP2S BLK, TP2S IQ, TP2S					
	(xxx = 265 to 290 W), followed by TP2 BLK2, TP BLK2, TP2S BLK2;				
RECxxx (xxx = 280 to 295 W), followed by TP2L, TP2L BLK, TP2L BLK2, TP2SL, TP2SL BLK, TP2SL BLK2;					
RECXXX	x (xxx = 275 to 320 W), followed by TP2M, TP2M BLK, TP2SM, TP2SM BLK;				
RECNN	RECxxx (xxx = 270 to 320 W), followed by TP2M BLK2, TP2SM BLK2;				
RECXXX	(xxx = 320 to 370 W), followed by PEM 72, PEM 72 BLK;				
RECXXX	(xxx = 310 to 370 W), followed by TP 72, TP 72 BLK, TP 72 BLK2, TP2S 72, TP2S 72 BLK, TP2S 72 BLK2;				
RECXXX	(xxx = 260 to 295 W), followed by PEM, PEM BLK, PE Z-Link-M;				
RECXXX	(xxx = 260 to 290 W), followed by PEM BLK2;				
RECXX	(xxx = 350 to 380 W), followed by TP2M 72, TP2M 72 BLK, TP2M 72 BLK2, TP2SM 72, TP2SM 72 BLK, TP2S				
RECXXX	x (xxx = 315 to 340 W), followed by TP2SB 72 XV.				
RECXXX	NP (where xxx is the power output from 295 W to 330 W)				
Note:	 Model numbers may be followed by suffixes US, ECO, EVO, BLK, BLK2, Q2, Q3, XV, Z-LINK, Z-LINK-M, or a combination of these. 				
	2. Details such as ratings, size, configuration, etc. reference should be made to the Certification Record or the Des				

APPLICABLE REQUIREMENTS ULC/ORD- C1703-01 - Flat-Plate Photovoltaic Modules and Panels

UL 1703-3rd Edition -Flat-Plate Photovoltaic Modules and Panels

507 Rev. 2016-02-18 Reaffirmed 2018-04-09

CPS

Table 4-3 Protection Parameters (IEEE1547 and Rule21) cont'd

Grid	Recovery	IEEE1547	Rule21	
Parameter name	Description	Setting Range (Min, Default , Max)	Setting Range (Min, Default , Max)	
VolMax (V)	Recovery Max threshold of grid voltage protection	{80.00%, 107.92% , 135.00%}	{80.00%, 107.99% , 135.00%}	
VolMin (V)	Recovery Min threshold of grid voltage protection	{20.00%, 90.08% , 100.00%}	{20.00%, 90.00% , 100.00%}	
VolRecoveryT(S)	Recovery time of grid voltage protection	{0, 300 , 655}	{0, 300 , 655}	
FrqMax (Hz)	Recovery Max threshold of grid Frequency protection	{54, 60.3 , 66}	{54, 60.4 , 65}	
FrqMin (Hz)	Recovery Min threshold of grid Frequency protection	{54, 59.8 , 60}	{48, 58.6 , 60}	
FrqRecoveryT (S)	Recovery time of grid frequency protection	{0, 300 , 655}	{0, 300 , 655}	
Grid Vol	tage Balance	IEEE1547	Rule21	
Parameter name	Description	Setting Range (Min, Default , Max)	Setting Range (Min, Default , Max)	
GridVolBalance	Threshold value of grid voltage imbalance	(0.01%, 10% ,10%)	(0.01%, 10% ,10%)	

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