PROJECT DETAILS		
PV Modules	48 x SOLARIA POWERX 395R	
Optimizers	48 x P505	
Inverter	1 x SE7600H-US (RGM) 1 x SE7600H-US	
Roof Type	Asphalt Shingles	
Racking	PSR-B84 Rails (Black)	
Mounting Type	CompMount Flashing (Black)	
DC SIZE	18.96 kW	
AC SIZE	15.2 kVA	

	DRAWING INDEX				
Item	Item Drawing # Rev Description				
1	22366JM00-0	Α	Drawing Index		
2	22366JM00-1	Α	Site Layout		
3	22366JM00-2	Α	String Mapping		
4	22366JM00-3	Α	Electrical One Line Diagram		
5	22366JM00-4	Α	Detailed Electrical Wiring Schematic		
6	22366JM00-5	Α	PV Labels		
7	22366JM00-6	Α	Bill of Materials		
8	22366JM00-7	Α	Plot Plan		

TOP	VIEW	OF	BUI	LDIN	G
7-2-20	1000			TO SEC.	- 1





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J Richard McDuffie

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PHOTOVOLTIC NOTES

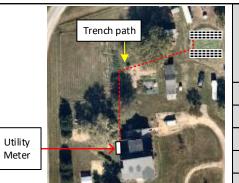
- 1. THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY WITH THE FOLLOWING CODES:
- 2020 NATIONAL ELECTRICAL CODE
- 2018 NORTH CAROLINA RESIDENTIAL CODE
- 2018 NORTH CAROLINA BUILDING CODE
- AS ADOPTED BY THE STATE OF NORTH CAROLINA
- ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES
- 2. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY.
- 3. SOLAR SYSTEM SHALL NOT COVER ANY PLUMBING OR MECHANICAL VENTS
- 4. MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED
- 5. SOLAR INVERTER SHALL BE LISTED TO UL1741
- 6. ALL CONDUCTORS SHALL BE COPPER AND SHOULD BE 75 AND 90 DEG RATED
- 7. REMOVAL OF AN INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR AND THE PHOTOVOLTAIC SOURCE AND/OR OUTPUT CIRCUIT GROUNDED CONDUCTORS.
- 8. LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED.
- 9. ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE.



NABCEP
CERTIFIED
PV Installation Professional
Ali Buttar

	PVIP #031310-32
A	08/26/2022
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JOB N	IUMBER
	22-366-JM00
PROJE	ECT STATUS
	PERMITTING
SHEE	Г
	DRAWING INDEX

JM 22366JM00-0



Module Dimension	44.7 in. 1	7.8in.	
Array	Tilt	Azimuth	
А	30°	180°	
В	30°	180°	١
			Ì

PANELS MODEL : Solaria PowerX-395R

SYSTEM DETAILS

DC SIZE: 18.96 kW

AC SIZE: 15.2 kVA

NUMBER OF PANELS: 48



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J Richar

NABCEP
CERTIFIED

PV Installation
Professional

Ali Buttar PVIP #031310-32

-	08/26/2022	-	
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-		-	
-		-	

Customer's Signature

JOB NUMBER

22-366-JM00

PROJECT STATUS

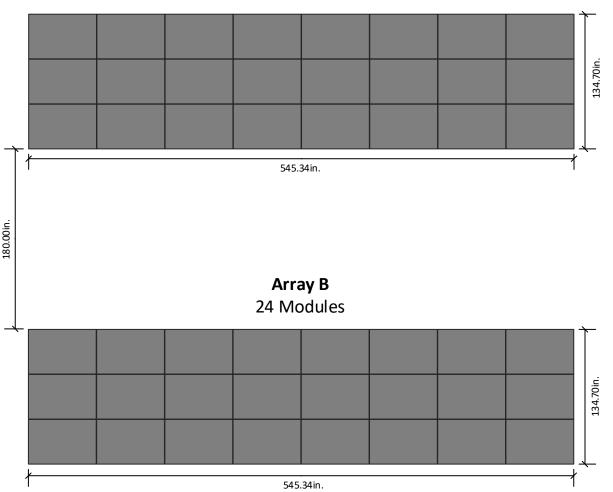
PERMITTING

SHEET

SITE LAYOUT

JM 22366JM00-1

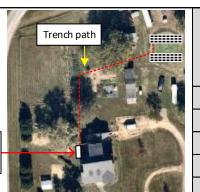
Array A 24 Modules



SITE LAYOUT
SCALE: 1/8" - 1'0"

6" clearance from each side of the roof Trench: 220ft. (approx.)

	String Layout					
Inv A: SE7600H-US (RGM) Inv B: SE7600H-US				-US		
Strings #	No. of Modules	Color Code	Color Code Strings # No. of Modules		Color Code	
String 1	12		String 3	12		
String 2	12		String 4	12		



Utility Meter

Module Dimension	44.7 in. 7	7.8in. —
Array	Tilt	Azimuth
А	30°	180°
В	30°	180°

SYSTEM DETAILS

DC SIZE: 18.96 kW

AC SIZE: 15.2 kVA

NUMBER OF PANELS: 48



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J Richard McDuffie

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PANELS MODEL : Solaria PowerX-395R

PV Installation Professional

Ali Buttar PVIP #031310-32

<u> </u>	08/26/2022	
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Customer's Signature

JOB NUMBER

22-366-JM00

PROJECT STATUS

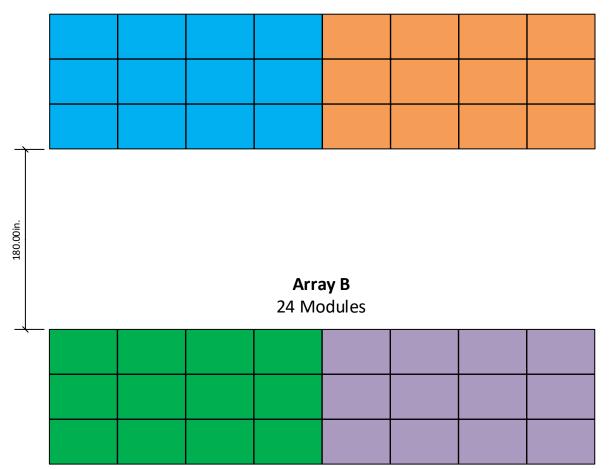
PERMITTING

SHEET

STRING MAPPING

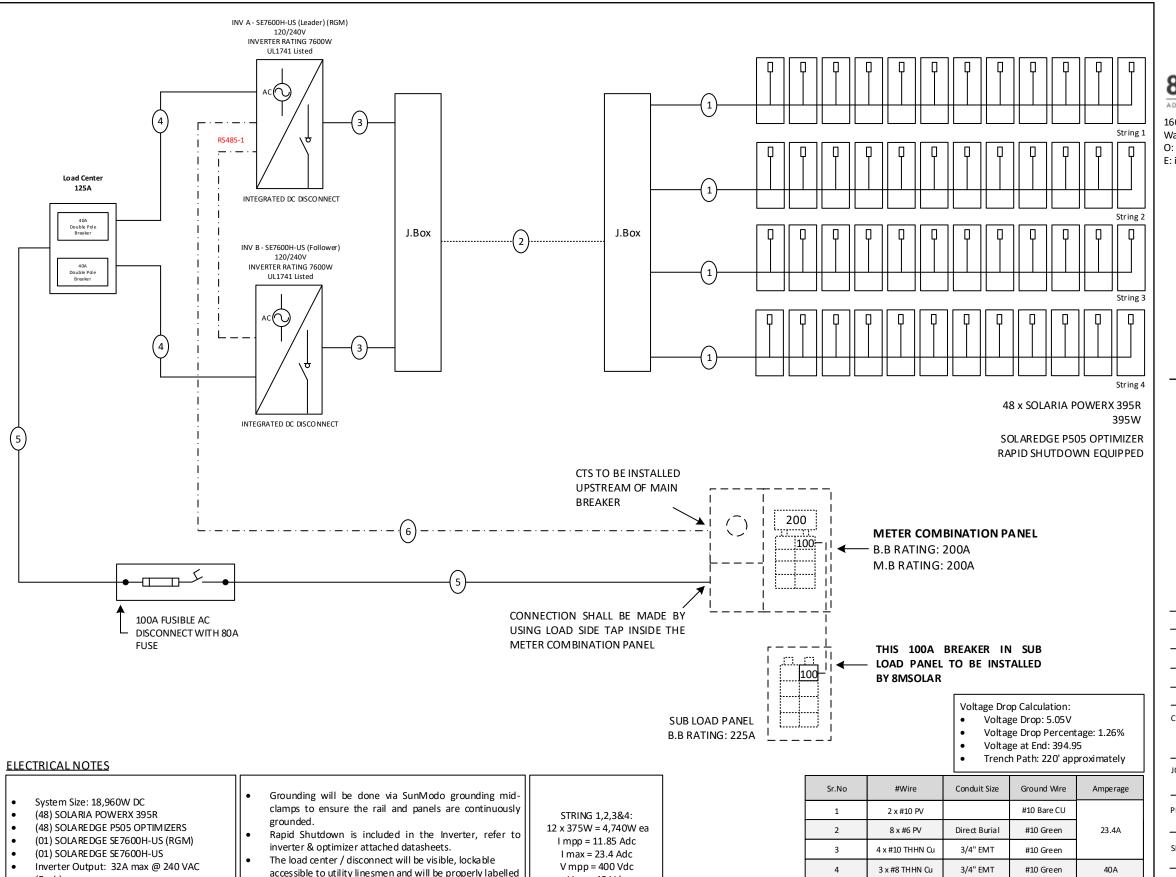
JM 22366JM00-2

Array A 24 Modules



6" clearance from each side of the roof





V oc = 12 Vdc

5

3 x #4 THHN Cu

Shielded CAT5e

1" EMT

#8 Green

as per NEC requirements. It will be located on the

exterior wall of the building, next to the utility meter.

(Each)

15.2 kVA AC output max



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Ali Buttar PVIP #031310-32

Α	08/26/2022	
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Customer's Signature

JOB NUMBER

22-366-JM00

PROJECT STATUS

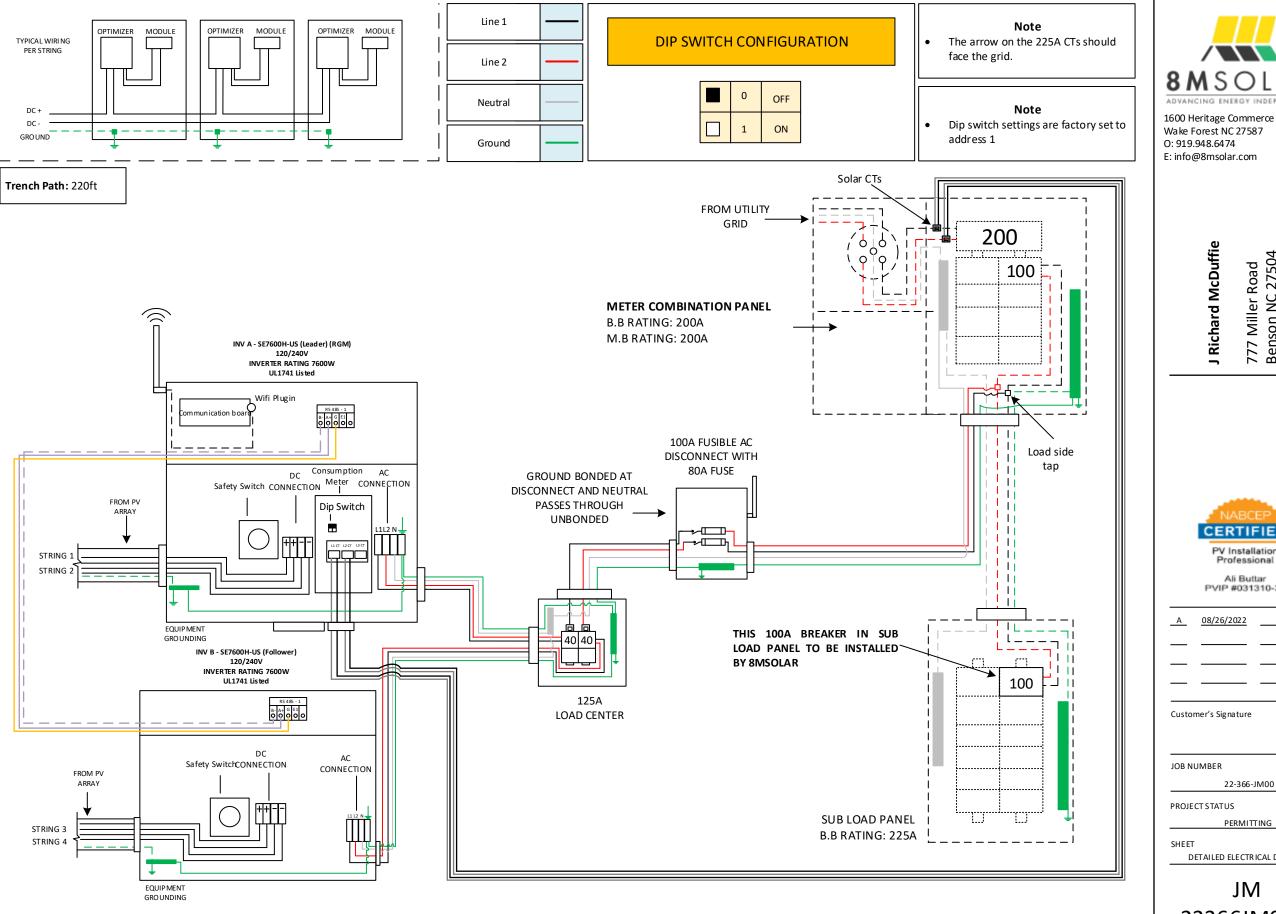
PERMITTING

4F FT

80A

DETAILED ELECTRICAL DIAGRAM

JM 22366JM00-3



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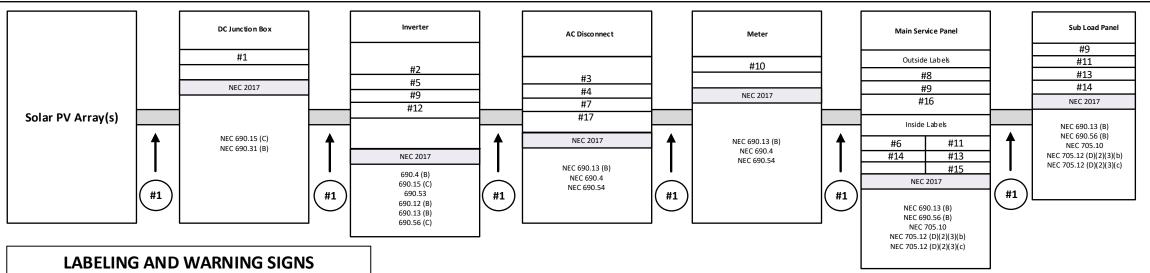


PVIP #031310-32

PERMITTING

DETAILED ELECTRICAL DIAGRAM

22366JM00-4



A. PURPOSE

PROVIDE EMERGENCY RESPONDERS WITH APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO ISOLATING THE SOLAR ELECTRIC SYSTEM. THIS CAN FACILITATE IDENTIFYING ENERGIZED ELECTRICAL LINES THAT CONNECT THE SOLAR PANELS TO THE INVERTER, AS SHOULD NOT BE CUT WHEN VENTING FOR SMOKE REMOVAL.

B. MAIN SERVICE DISCONNECT:

- 1. RESIDENTIAL BUILDINGS- THE MARKING MAY BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED ON THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.
- 2. COMMERCIAL BUILDINGS- THE MARKINGS SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECTCLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS O PERATED
- 3. MARKINGS, VERBIAGE, FORMAT AND TYPE OF MATERIAL
 - a. VERBIAGE: CAUTION; SOLAR ELECTRIC SYSTEM CONNECTED b. FORMAT:
 - (1) WHITE LETTERING ON A RED BACKGROUND
 - (2) MINIMUM 3/8 INCH LETTER HEIGHT
 - (3) ALL LETTERS SHALL BE CAPITALIZED
 - (4) ARIAL OR SIMILAR FONT, NON-BOLD

c. MATERIAL:

- (1) REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL-969) AS STANDARD FOR WEATHER RATING): DURABLE ADHESIVE MATERIALS MEET THIS REQUIREMENT.
- C. MARKING REQUIREMENTS ON DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, DC COMBINERS AND JUNCTION BOXES;
 - 1. MARKING: PLACEMENT, VERBIAGE, FORMAT AND TYPE OF MATERIAL.

A. PLACEMENT: MARKINGS SHALL BE PLACED EVERY 10 (TEN) FEET ON ALL INTERIOR AND EXTERIOR DC CONDUITS, RACEWAYS, ENCLOSURES AND CABLE ASSEMBLIES, AT TURNS ABOVE AND/OR BELOW PENETRATIONS, ALL DC COMBINERS AND JUNCTION BOXES. B. VERBIAGE: CAUTION SOLAR CIRCUIT

- C. THE FORMAT AND TYPE OF MATERIAL SHALL ADHERE TO SECTION B-3.B & C ABOVE
- D. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS

#1 WARNING: PHOTOVOLTAIC POWER SOURCE

#2 PHOTOVOLTAIC

DC DISCONNECT ...

#3 PHOTOVOLTAIC
.... AC DISCONNECT ...

#4 RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM

#5

MAXIMUM VOLTAGE

MAX.MUM CIRCUIT CURRENT

MAX. RATED OUTPUT CURRENT

OF THE CHARGE CONTROLLER OR
DC-TO-DC CONVERTER (IF INSTALLED)

PHOTOVOLTAIC POWER SOURCE
OPERATING AC VOLTAGE

MAXIMUM OPERATING
AC OUTPUT CURRENT

A

AC DISCONNECT

PHOTOVOLTAIC SYSTEM
POWER SOURCE

RATED AC
OUTPUT CURRENT

NOMINAL OPERATING
AC VOLTAGE

VOLTS

#8 **WARNING**

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

∆WARNING

DUAL POWER SUPPLY SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

#10 **WARNING**

#9

THIS SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM

TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

#12 **MARNING**

DISCONNECTION OF NEUTRAL GROUNDED CONDUCTORS MAY RESULT IN OVERVOLTAGE ON ARRAY OR INVERTER

BIPOLAR PHOTOVOLTAIC ARRAY

#13

WARNING

SOLAR ELECTRIC
CIRCUIT BREAKER
IS BACKFED

#14

MWARNING

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

#15 SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



#16

SOLAR AC DISCONNECT LOCATED AT WEST SIDE WALL OF THE HOUSE BESIDE THE METER COMBINATION PANEL

#17

SERVICE DISCONNECT LOCATED IN THE METER COMBINATION PANEL



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Richard McDuffie

777 Miller Road Benson NC 27504



Ali Buttar PVIP #031310-32

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Custon	ner's Signature	

JOB NUMBER

22-366-JM00

PROJECT STATUS

PERMITTING

SHEET

PV LABELS

JM 22366IM00-5

Trench path Utility

Meter

8M-002

Module Dimension	44.7 in. 4		
Array	Tilt	Azimuth	
А	30°	180°	1
В	30°	180°	١
			Ē

67.8in.



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CERTIFIED PV Installation Professional

Ali Buttar PVIP #031310-32

08/26/2022

Customer's Signature

JOB NUMBER

22-366-JM00

PROJECT STATUS

PERMITTING

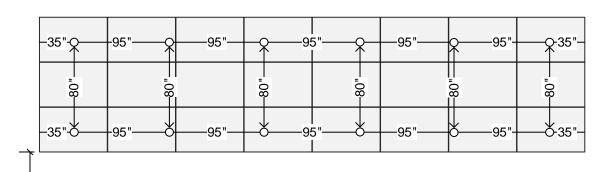
SHEET

BILL OF MATERIAL

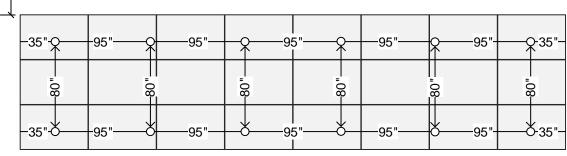
JM 22366JM00-6

Array A 24 Modules

Trench: 220ft. (approx.)



Array B 24 Modules



PIER DIAGRAM

6" clearance from each side of the roof

180.00in.

BILL OF MARERIAL SCALE: 1/8" - 1'0"

24 X K10423-063: GROUND SCREW, 63" **PV LABELS** 12 X A21165-060: HSS 2.375" OD FRONT PIPE 12 X A21165-120: HSS 2.375" OD REAR PIPE 20 X A21168-112: 2.875" OD E/W PIPE BEAM, 112" Sr No Code Qty 04 X A50164-066: HSS E/W TUBE BRACE 01 02-314 11 12 X A50164-092: HSS N/S TUBE BRACE 32 X A20144-168-ML; HELIO STANDARD RAIL HR250, 168" 02 03-301 02 64 X K10343-001: 2.5" PIPE U-CLAMP KIT 24 X K10341-002: 2.5" PIPE T-CAP KIT 03 03-302 01 28 X K10219-001: 2" PIPE CLAMP KIT 04 X K10222-001: 2.5" PIPE CLAMP KIT 04 02-316 01 16 X K10342-001: 2.5" PIPE SPLICE KIT 05 03-308 02 64 X K10180-001: UNIVERSAL MID CLAMP KIT 64 X K10224-135: END CLAMP KIT 06 03-390 01 04 X K10469-003: GROUNDING LUG 64 X A20284-001: RAIL END CAP 07 03-306 01 48 X K10363-001: MICRO INVERTER HARDWARE KIT 08 08 X A20380-001: PIPE END CAP 05-215 02 09 05-211 04 **SOLAR MODULES** 10 07-359 01 48 x Solaria PowerX-395R 11 05-372 02 INVERTER & SUPPORTING ITEMS 12 02 05-103 01 x SolarEdge SE7600H-US US000BNI4 (RGM) 01 x SolarEdge SE7600H-US US000BNU4 02 13 05-216 48 x SolarEdge Power Optimizer P505 14 01 x SE-WFGW-B-S1-NA with Antenna kit 05-342 02 02 x 225A SolarEdge CTs 02 15 07-111 16 8M-001 01

2000 ft x #6 PV WIRE BLK (Cu)

500 ft x #10 PV WIRE BLK (Cu)



Module Dimension	44.7 in. 7	7.8in. 🔟
Array	Tilt	Azimuth
Α	30°	180°
В	30°	180°



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NABCEP CERTIFIED PV Installation Professional

Ali Buttar PVIP #031310-32

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Customer's Signature

08/26/2022

JOB NUMBER

22-366-JM00

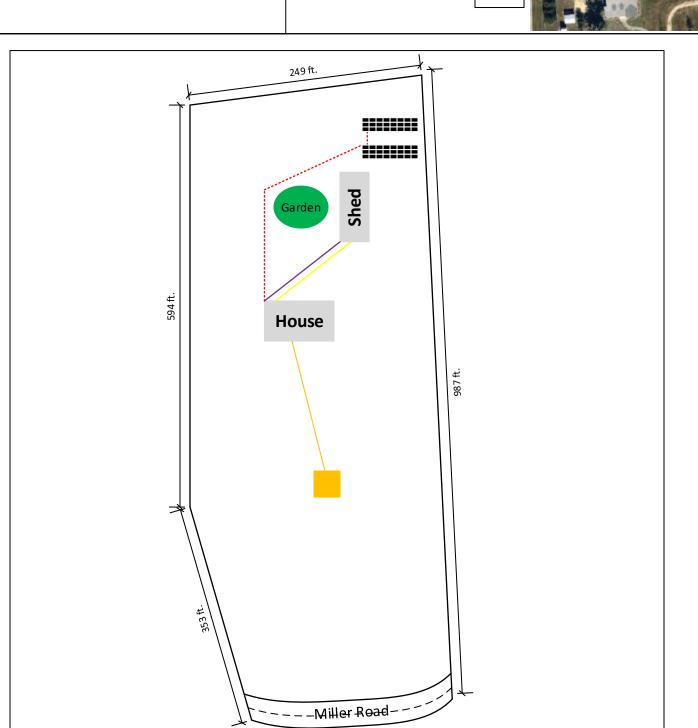
PROJECT STATUS

PERMITTING

SHEET

PLOT PLAN

JM 22366JM00-7



Trench: 220ft. (approx.)

SYSTEM DETAILS

NUMBER OF PANELS: 48

PANELS MODEL : Solaria PowerX-395R

DC SIZE : 18.96 kW AC SIZE : 15.2 kVA

Trench Path	
Electrical Lines	
Severage Line	
Septic Line	
Septic Tank	

PLOT PLAN



Solaria PowerX-400R Performance Series

Achieving over 20.5% efficiency, Solaria PowerX Performance solar panels feature Solaria's core cell cutting technology, offering higher-power and attractive black-onblack aesthetics compared to conventional solar panels. Solaria has been the market leader in cut-cell technologies for over a decade. With a comprehensive 25-year warranty, PowerX delivers the latest in power and reliability for homeowners.



High Efficiency, High Power

At 400 watts and 20.5% efficiency, Solaria PowerX solar panels are one of the highest power residential panels available.



High Quality and Reliability

State-of-the art cell cutting technology and advanced panel construction ensure that PowerX panels are highly reliable and designed to far exceed the industry-leading 25-year warranty.



All Black Aesthetics

Compared to conventional panels, Solaria PowerX panels have a more uniform all-black appearance.



Best System Value

Solaria PowerX solar panels produce more power per square meter area. This reduces installation costs due to fewer balance of system components.



Improved Shading Tolerance

Sub-strings are interconnected in parallel, which dramatically lowers the shading losses and boosts energy yield.



Low Light Performance

PowerX maintains high efficiency at low irradiance further ensuring maximum energy yield.



About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP portfolios, with over 250 issued and pending patents in PV solar cell and module technology. Headquartered in California, Solaria has developed a technology platform that unlocks the potential of solar energy.



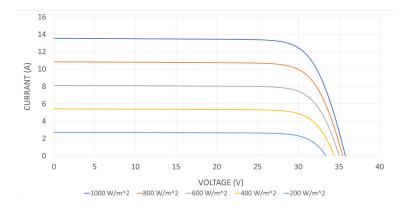
Performance at STC (1000W/m², 25° C, AM 1.5)				
Solaria PowerX-		390R	395R	400R
Max Power (Pmax)	[W]	390	395	400
Efficiency	[%]	20.0	20.2	20.5
Open Circuit Voltage (Voc)	[V]	36.9	37.1	37.3
Short Circuit Current (Isc)	[A]	13.52	13.60	13.68
Max Power Voltage (Vmp)	[V]	30.6	30.8	31.0
Max Power Current (Imp)	[A]	12.73	12.82	12.9
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3

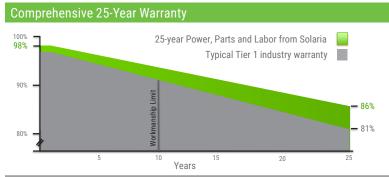
Performance at NOCT (800W/m	² , 20°C Am	b, Wind 1 m	/s, AM 1.5)	
Max Power (Pmax)	[W]	290	293	297
Open Circuit Voltage (Voc)	[V]	34.3	34.5	34.7
Short Circuit Current (Isc)	[A]	11.01	11.10	11.13
Max Power Voltage (Vmp)	[V]	28.50	28.60	28.76
Max Power Current (Imp)	[A]	10.20	10.26	10.32

Temperature Characteristics		
NOCT	[°C]	45 +/-2
Temp. Coeff. of Pmax	[% / °C]	-0.36
Temp. Coeff. of Voc	[% / °C]	-0.28
Temp. Coeff. of Isc	[% / °C]	0.048

Design Parameters		
Operating temperature	[°C]	-40 to +85
Max System Voltage	[V]	1000
Max Fuse Rating	[A]	25
Bypass Diodes	[#]	3

IV Curves vs. Irradiance (400W Panel)





Mechanical Characteristics

Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	67.8" x 44.7" x 1.4"
	1723mm x 1134mm x 35mm
Weight	22.1 kg / 48.7 lbs
Glass Type / Thickness	AR Coated, Tempered / 3.2mm
Frame Type	Black Anodized Aluminum
Cable Type / Length	12 AWG PV Wire (UL) /1100mm
Connector Type	MC4
Junction Box	IP68 / 3 diodes
Front Load	5400 Pa / 113 psf*
Rear Load	2400 Pa / 50 psf*
* Refer to Solaria Installation Manual for de	etails

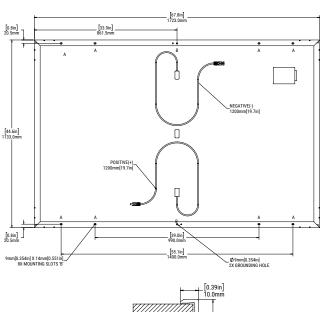
Certifications / Warranty

* Warranty details at www.solaria.com

Certifications	UL 61730 / IEC 61215 / IEC 61730
Fire Type (UL 1703)	2
Power, Parts & Labor Warranty	25 years*

Packaging

Stacking Method	Vertical / Palletized
Panels/ Pallet	31
Pallet Dims (L x W x H)	69.3" x 44.3" x 49.3"
	1760mm x 1125mm x 1253mm
Pallet Weight	745 kg / 1642 lbs
Pallets / 40-ft Container	26
Panels / 40-ft Container	806



Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12

- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



NVERTE

Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER		SEXXXXH-XXXXXBXX4						
OUTPUT	•							
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	✓	-	✓	-	-	✓	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5 ⁽¹⁾				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	А
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	А
Power Factor			1	, Adjustable - 0.85 to	0.85		1	
GFDI Threshold				1				А
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage		3	80			400		Vdc
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current				45	-			Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kΩ Sensitivity				
Maximum Inverter Efficiency	99			9	9.2			%
CEC Weighted Efficiency		99 9 9 0 240V 98.5 @ 208V						%
Nighttime Power Consumption		< 2.5						W

⁽¹⁾ For other regional settings please contact SolarEdge support

⁽²⁾ A higher current source may be used; the inverter will limit its input current to the values stated

Single Phase Inverter with HD-Wave Technology for North America

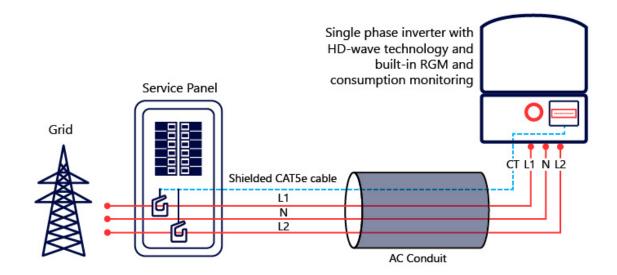
SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES			1	1	1	•	<u>'</u>	
Supported Communication Interfaces			RS485, Ethernet,	ZigBee (optional), C	ellular (optional)			
Revenue Grade Metering, ANSI C12.20				Ontinnal(3)				
Consumption metering				Optional ⁽³⁾				
Inverter Commissioning		With the SetAp	op mobile applicatio	n using Built-in Wi-Fi	Access Point for Lo	cal Connection		
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12			Automatic Rapid	Shutdown upon AC	Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL1741, U	L1741 SA, UL1699B, (CSA C22.2, Canadian	AFCI according to	T.I.L. M-07		
Grid Connection Standards			IEEE'	1547, Rule 21, Rule 14	(HI)			
Emissions				FCC Part 15 Class B				
INSTALLATION SPECIFICAT	IONS							
AC Output Conduit Size / AWG Range		1"	Maximum / 14-6 AV	VG		1" Maximum	/14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1" Maxir	mum / 1-2 strings / 14	4-6 AWG		1" Maximum / 1-3 s	strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 37	0 x 174		21.3 x 14.6 x 7.3 /	540 x 370 x 185	in / mm
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	/ 11.9	38.8 /	′ 17.6	lb/kg
Noise		<	25			<50		dBA
Cooling				Natural Convection				
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁴⁾					°F/°C		
Protection Rating			NEMA 42	X (Inverter with Safet	y Switch)			

⁽³⁾ Inverter with Revenue Grade Meter P/N: SExxxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BNI4 . For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20. 20 units per box

How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



⁽⁴⁾ Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

Power Optimizer

For North America

P370 / P400 / P401 / P485 / P505



POWER OPTIMIZER

PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization

- Fast installation with a single bolt
- Next generation maintenance with modulelevel monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety



/ Power Optimizer **For North America**

P370 / P400 / P401 / P485 / P505

Optimizer model (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P401 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules)	
INPUT						
Rated Input DC Power ⁽¹⁾	370	400	430	485	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	80	60	125(2)	83(2)	Vdc
MPPT Operating Range	8 - 60	8 - 80	8-60	12.5 - 105	12.5 - 83	Vdc
Maximum Short Circuit Current (Isc)	11	10.1	12.5	11	14	Adc
Maximum DC Input Current	13.75	12.5	14.65	12.5	17.5	
Maximum Efficiency			99.5			%
Weighted Efficiency			98.8			%
Overvoltage Category			II			
OUTPUT DURING OPERATION	N (POWER OPTIMIZEI	R CONNECTED	TO OPERATING SOL	AREDGE INVERTE	R)	
Maximum Output Current			15			Adc
Maximum Output Voltage		60		8	0	Vdc
OUTPUT DURING STANDBY (F	POWER OPTIMIZER DI	SCONNECTED	FROM SOLAREDGE IN	VERTER OR SOLAR	REDGE INVERTER (OFF)
Safety Output Voltage per Power Optimizer			1 ± 0.1			Vdc
STANDARD COMPLIANCE						
EMC		FCC Part	15 Class B, IEC61000-6-2, IEC6	1000-6-3		
Safety		IEC6210	9-1 (class II safety), UL1741, NEC	C/PVRSS		
Material			UL94 V-0 , UV Resistant			
RoHS			Yes			
INSTALLATION SPECIFICATION	NS					
Maximum Allowed System Voltage			1000			Vdc
Compatible inverters		All SolarEdo	ge Single Phase and Three Pha	se inverters		
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 / 5.1 x 6 x 1.16	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm /in
Weight (including cables)	630 / 1.4	750 / 1.7	655 / 1.5	845 / 1.9	1064 / 2.3	gr/lb
Input Connector		MC4 ⁽³⁾		MC4 ⁽³⁾	MC4 ⁽³⁾	
Input Wire Length			0.16 / 0.5	l	I.	m/ft
Output Wire Type / Connector			Double Insulated / MC4			
Output Wire Length			1.2 / 3.9			m/ft
Operating Temperature Range (4)			-40 to +85 / -40 to +185			°C / °F
Protection Rating			IP68 / Type6B			
Relative Humidity			0 - 100			%

⁽¹⁾ Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed

⁽⁴⁾ Longer inputs wire lengths are available for use. For 0.9m input wire length order P401-xxxLxxx
(5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details: https://www.solaredge.com/sites/default/files/setemperature-derating-note-na.pdf

PV System Design Usi Inverter ⁽⁶⁾⁽⁷⁾	ng a SolarEdge	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length	P370, P400, P401	8		10	18	
(Power Optimizers)	P485, P505	6		8	14	
Maximum String Length (Powe	Maximum String Length (Power Optimizers)		25		50	
Maximum Power per String		5700 ⁽⁸⁾ (6000 with SE7600-US - SE11400-US)	5250 ⁽⁸⁾	6000 ⁽⁹⁾	12750 ⁽¹⁰⁾	W
Parallel Strings of Different Lengths or Orientations				Yes		

⁽⁶⁾ For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf



⁽²⁾ NEC 2017 requires max input voltage be not more than 80V

⁽³⁾ For other connector types please contact SolarEdge

⁽⁷⁾ It is not allowed to mix P485/P505 with P370/P400/P401 in one string

⁽⁸⁾ A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement

⁽⁹⁾ For 208V grid: it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W (10)For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W



Intertek 3933 US Route 11 Cortland, NY 13045 Telephone: 607-753-7311 www.intertek.com

Subject: ETL Evaluation of SolarEdge Products to Rapid Shutdown Requirements

To, whom it may concern

This letter represents the testing results of the below listed products to the requirements contained in the following standards:

The evaluation was done on the PV Rapid Shutdown System (PVRSS), and covers installations consisting of optimizers and inverters with part numbers listed below.

The testing done has verified that controlled conductors are limited to:

- Not more than 30 volts and 240 voltamperes within 30 seconds of rapid shutdown initiation outside the array.
- Not more than 80 volts and 240 voltamperes within 30 seconds of rapid shutdown initiation inside the array.

The rapid shutdown initiation is performed by either disconnecting the AC feed to the inverter, or – if the inverter DC Safety switch is readily accessible – by turning off the DC Safety switch.

Applicable products:

(1) Power optimizers:

PB followed by 001 to 350; followed by -AOB or -TFI. OP followed by 001 to 500; followed by -LV, -MV, -IV or -EV. P followed by 001 to 1100.

SP followed by 001 to 350.

When optimizers are connected to 2 or more modules in series, the max input voltage may exceed 80V. Following the implementation of the NEC 2017 rapid shutdown value of 80V max inside of the array at the beginning of 2019, modules exceeding this combined input max voltage will be required to use optimizers with parallel inputs. Also meeting NEC 2020 rapid shutdown requirement.

(2) 1 -PH Inverters

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US / SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US when the following label is labeled on the side of the inverter:

Inverter part number may be followed by a suffix.

(3) 3 -PH Inverters



Intertek 3933 US Route 11 Cortland, NY 13045 Telephone: 607-753-7311 www.intertek.com

SE9KUS / SE10KUS / SE14.4KUS / SE16.7kUS / SE17.3kUS / SE20KUS / SE30KUS / SE33.3KUS / SE40KUS / SE43.2KUS / SE50KUS / SE66.6KUS / SE80KUS / SE85KUS / SE100KUS / SE120KUS; when the following label is labeled on the side of the inverter:

Please note, this Letter Report does not represent authorization for the use of any Intertek certification marks.

Brand Name(s) SolarEdge

Relevant Standard(s) UL 1741, UL 1741 CRD for rapid shutdown

National Electric Code, 2020, Section 690.12 requirement for

rapid shutdown

Verification Issuing Office 3933 US Route 11, Cortland, NY 13045

NRTL Disclaimer, Different for each NRTL – Example: "This Verification is for the exclusive use of NRTL's Client and is provided pursuant to the agreement between NRTL and its Client. NRTL's responsibility and liability are limited to the terms and conditions of the agreement. NRTL assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to copy or distribute this Verification. Any use of the NRTL name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by NRTL. The observations and test results referenced from this Verification are relevant only to the sample tested. This Verification by itself does not imply that the material, product, or service is or has ever been under an NRTL certification program."

Signature:

Name: Mukund Rana Position: Staff Engineer

Date:5/17/2021





Date	Engineer / Reviewer	Description
5/17/2021 G104683664CRT	Dishant Patel	Added New 3-PH Inverter model SE50KUS, SE80KUS, SE85KUS and SE120KUS.
	Mukund Rana	Updated Power optimizers from "P followed by 001 to 960" to "P followed by 001 to 1100"
		Updated NEC standard from "National Electric Code, 2017, Section 690.12 requirement for rapid shutdown" To "National Electric Code, 2020, Section 690.12 requirement for rapid shutdown"



SunModo offers the next generation Ground Mount System with SunTurf™. The streamlined design combines the strength of Helio Rails with steel pipes to create the perfect ground mount solution.

SurTurf[™] is ideal for solar installers looking for a durable and cost-effective system that can accommodate a wide variety of soil conditions.

The SunTurf™ Ground Mount Advantage

- ✓ Easily scalable from kilowatts to multimegawatts PV Arrays.
- ✓ Foundation design solution for every soil condition.
- ✓ Online configuration tool available to streamline design process.
- ✓ Components optimized for strength, durability and fast installation.
- ✓ UL 2703 Listed by Intertek.

Key Features of SunTurf™ Ground Mount System



SunTurf™ Ground Mount System easily integrate Helio Rails with 2-inch Schedule 40 steel pipes. No drilling is required to attach the aluminum rails to the horizontal pipe. Optional bracing can provide additional structural rigidity for sites with high snow or wind load conditions. Anchor any ground mount installation using one of our fountain types including helical piles, precast ballasts and concrete piers.







Technical Data

Application	Ground Mount
Material	High grade aluminum, galvanized steel and 304 stainless steel hardware
Module Orientation	Portrait and landscape
Tilt Angle	Range between 10 to 50 degrees
Foundation Types	Post in concrete, helical earth auger, ground screw anchor and ballast
Structural Integrity	Stamped engineering letters available
Certification	UL 2703 Listed by ETL
Warranty	20 Years



GROUND SCREW ANCHORS & HELICAL EARTH AUGERS

Don't fret over your next PV ground mount installation; Screw It!

SunModo is proud to offer heavy-duty Ground Screws and Earth Augers as a foundational option for your Ground Mount PV racking system.

These anchors are used for securing installer-supplied 2 inch Schedule 10 or 40 galvanized steel pipe. Our anchors are popular because they are strong, economical, and easily to install.

To install simply turn/screw the anchor into the ground using a rotary head backhoe and a drive adaptor. The drive adaptor bolts quickly through the anchor's reinforced eyelet efficiently transferring torque.

These heavy-duty ground screws and earth augers are made of structural carbon steel with a hot-dipped galvanized corrosion resistant finish. Both anchors are available in 63" and 84" lengths with a 36" long extension coupler available.

Features:

- Predictable capacity
- Cost-effective method
- Easy to store, reusable
- Pre-engineered system
- Labor-saving, keeps crew small
- Screws into place (not predrilled)
- Site-specific to conditions and loads
- Extendable with bolted joint connection

Benefits:

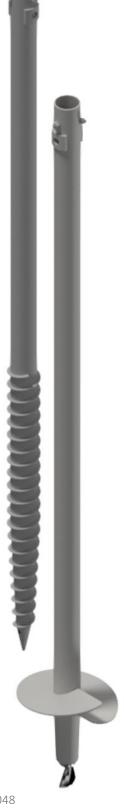
- Fast installation
- Clean installation
- Immediate loading
- No spoils to remove
- Lower installed costs
- One-trip convenience
- Installs in limited access areas



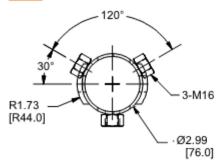


BASIC INFORMATION	
Part Number	A21146-XXX
Description	10" Helix Blade Auger
Lengths (-063 -080)	63 inches 80 inches
Auger Outside Diameter	76mm
Attachment Hardware	3X M16 Set Screws
Material	#45 Structural Carbon Steel
Finish	Hot Dip Galvanized
Approximate Weight	8,2 kg 10,5 kg

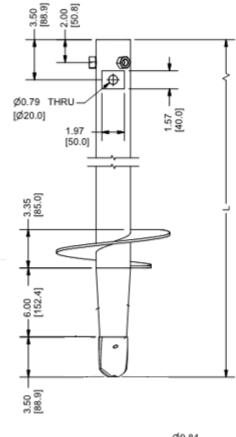
BASIC INFORMATION	
Part Number	A21147-XXX
Description	Screw Anchor
Lengths (-063 -080)	63 inches 80 inches
Auger Outside Diameter	76mm
Attachment Hardware	3X M16 Set Screws
Material	#45 Structural Carbon Steel
Finish	Hot Dip Galvanized
Approximate Weight	8,2 kg 10,5 kg

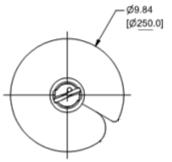


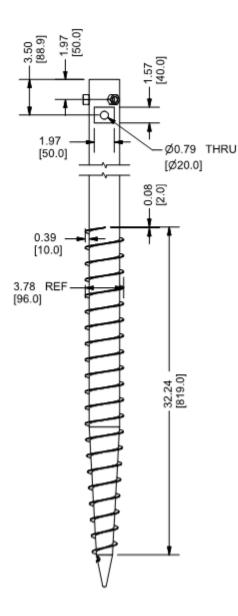




TYPICAL DETAIL







A21146-XXX

A21147-XXX

SunModo Corp | 14800 NE 65th Street | Vancouver, WA 98682 | 360-844-0048 Document Number D10162-V001 | ©2018 – SunModo Corp.



THE SWIVEL[™] PIPE CAP KIT CAN HANDLE ANY TWIST OR TURN YOUR SLOPED TERRAIN HAS TO OFFER



SunModo has added the Swivel Pipe Cap to its expanding SunTurf® Ground Mount PV racking system.

Installing solar arrays on an undulating hillside terrain is no longer a problem thanks to the Swivel Pipe Cap Kit. This pivoting pipe cap saves time and money by eliminating the need to grade the land before installing the PV array on sloped terrain. The Swivel Pipe Cap Kit, a part of the SunTurf system, can accommodate terrains up to 27% slope east-west and 120% slope north-south.

The Swivel Pipe Cap Kit (K10373-001) is a robust aluminum design with stainless steel hardware and integrated bonding for safety.

The solar array can now follow the east-west contour of the land, thus providing the highest possible output through increased density.



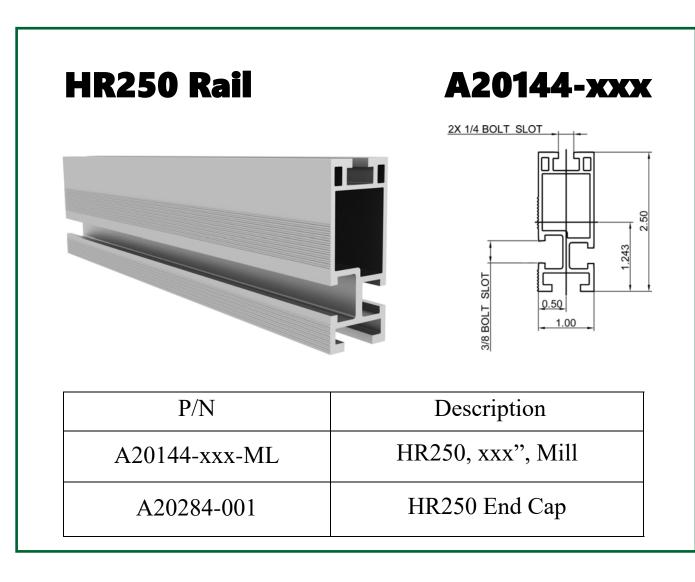
Features & Benefits:

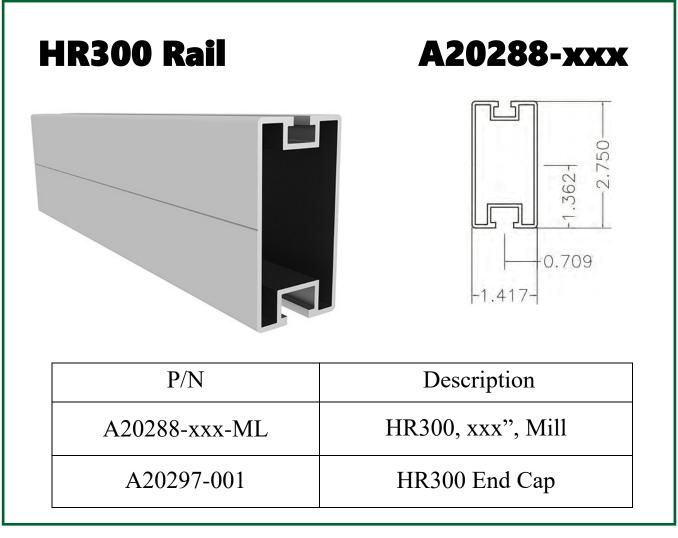
- Accommodate terrains up to 27% slope east-west and 120% slope north-south.
- Heavy-duty aluminum construction.
- 3/8 stainless steel hardware with integrated bonding provided in every pipe cap.
- Eliminates the need to grade the land.

SLOPE CONVERSION TABLE			
DEGREES	GRADIENT (Rise/Run)	PERCENT	
15	1:3.73	26.8%	
50	1:0.84	119.2%	

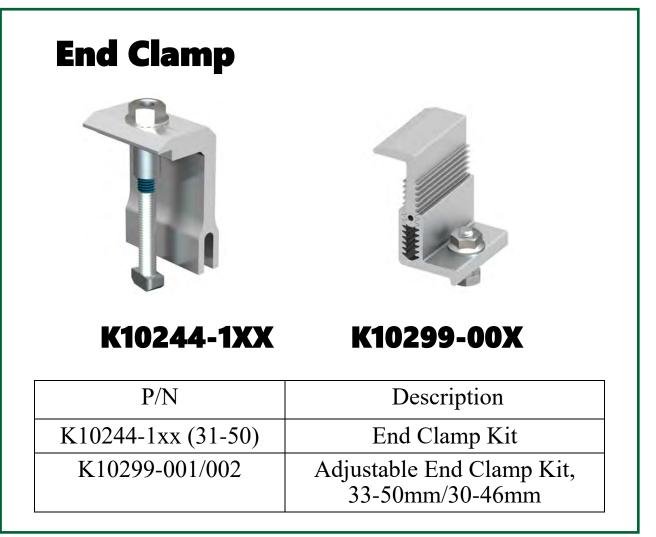


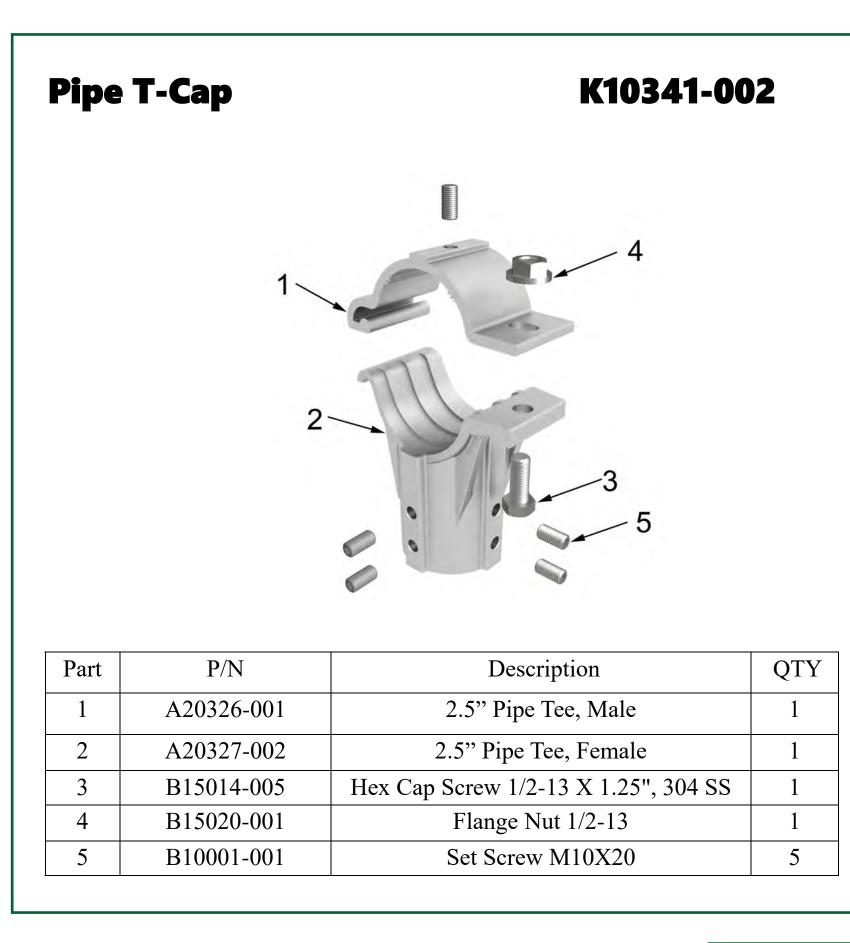
SunTurf System Parts Guide

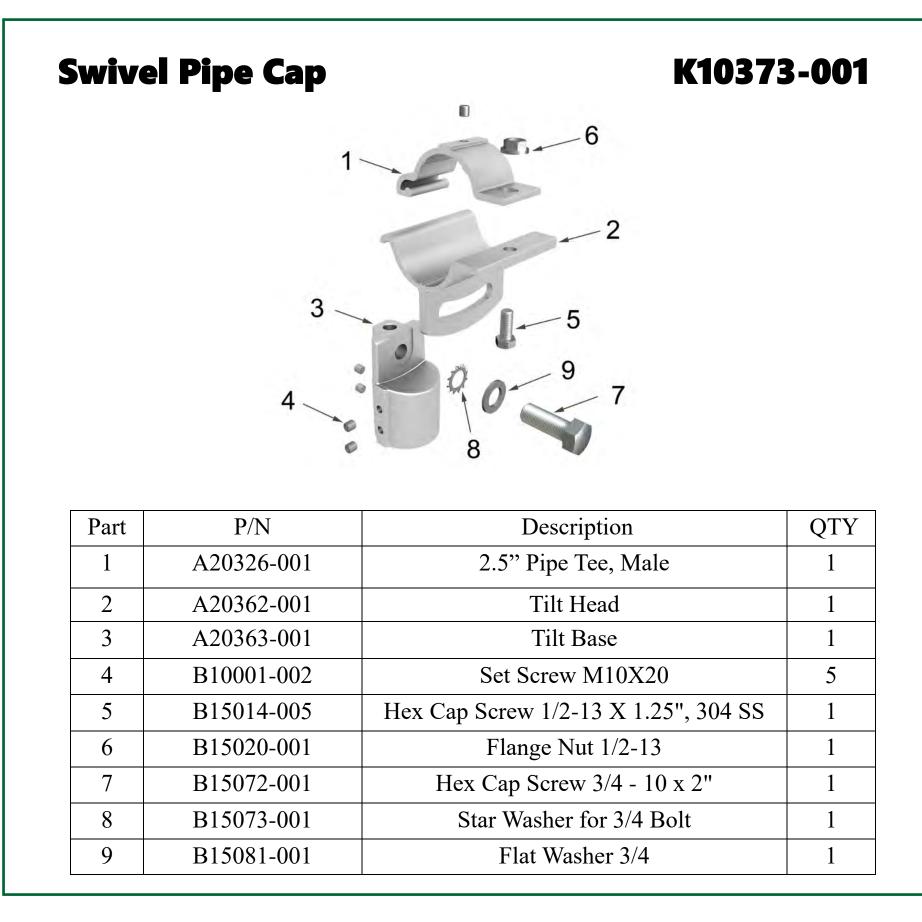




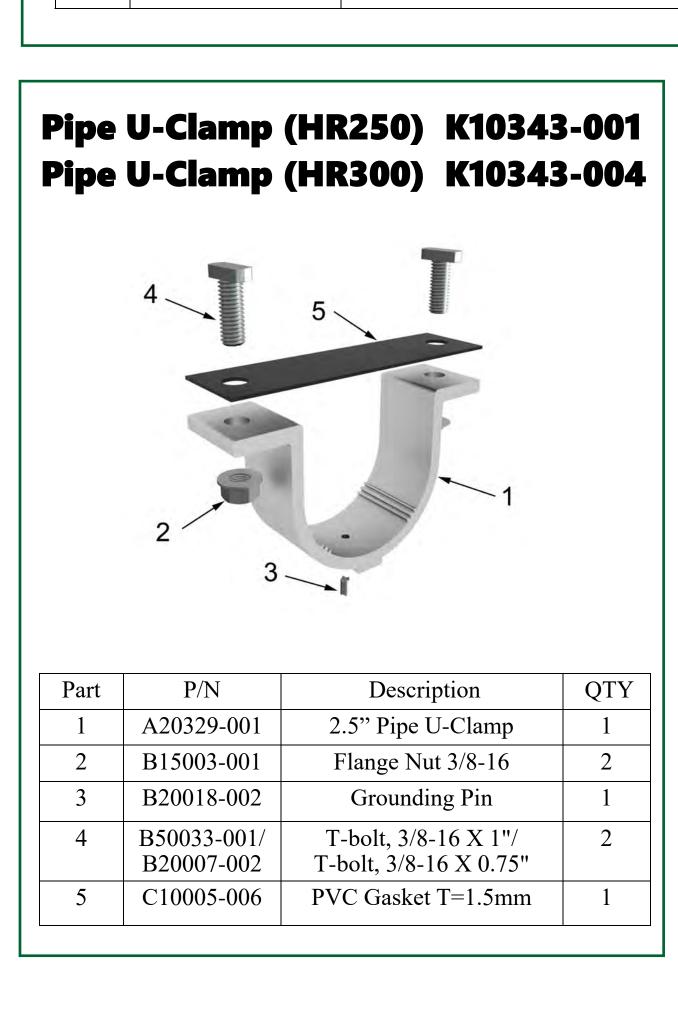


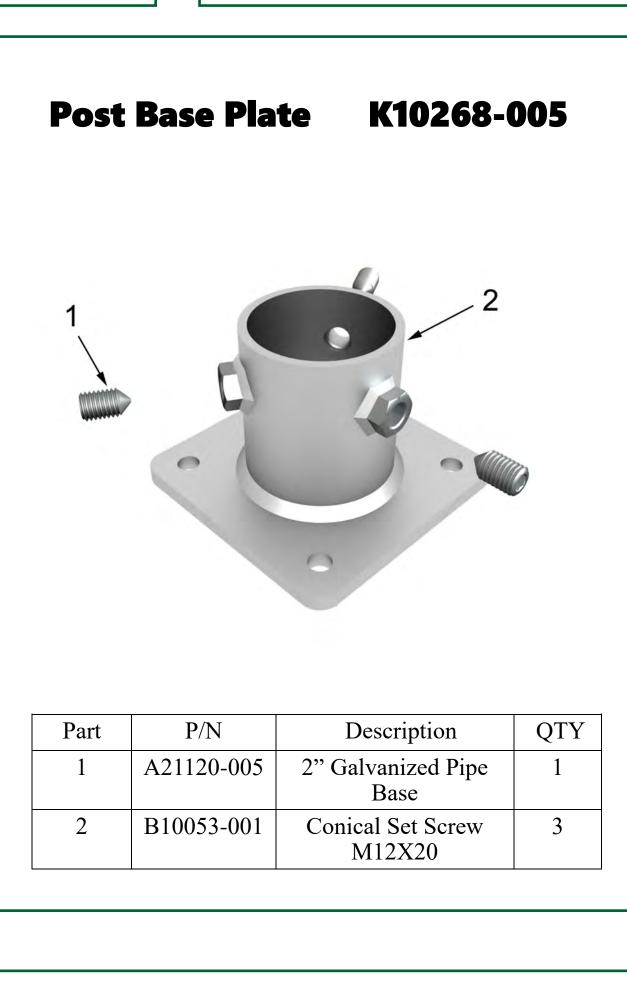


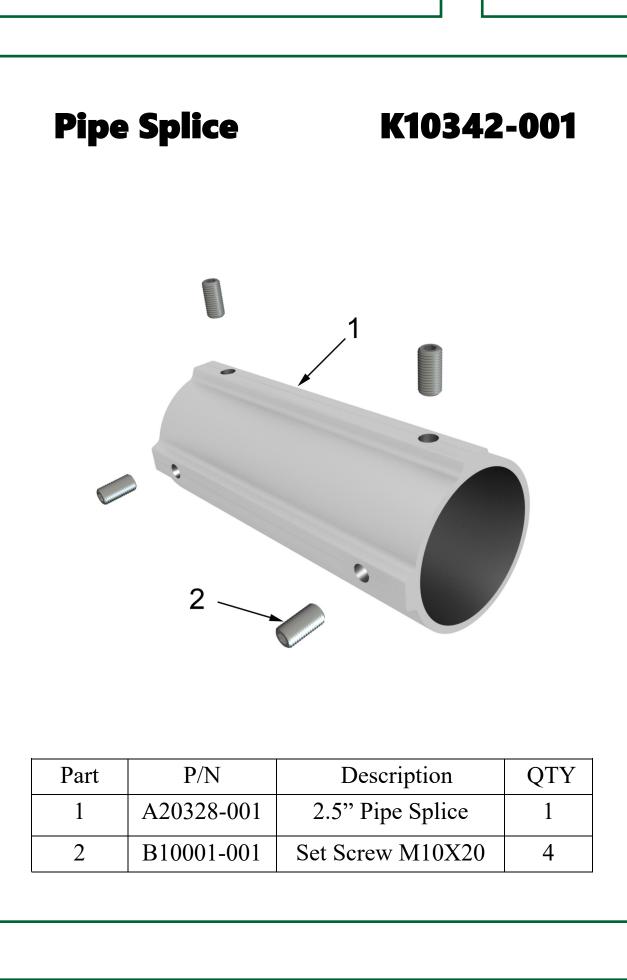


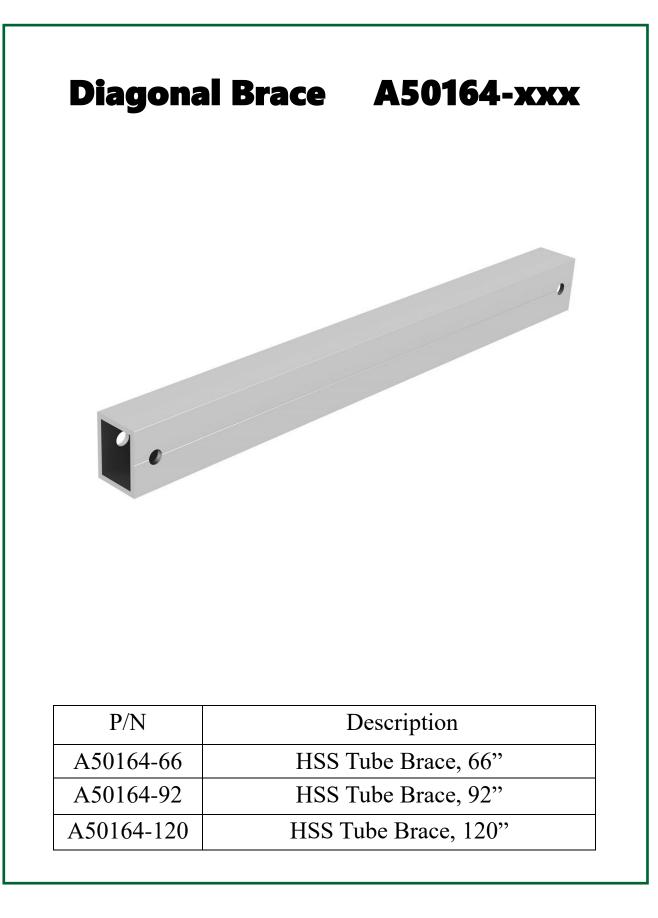


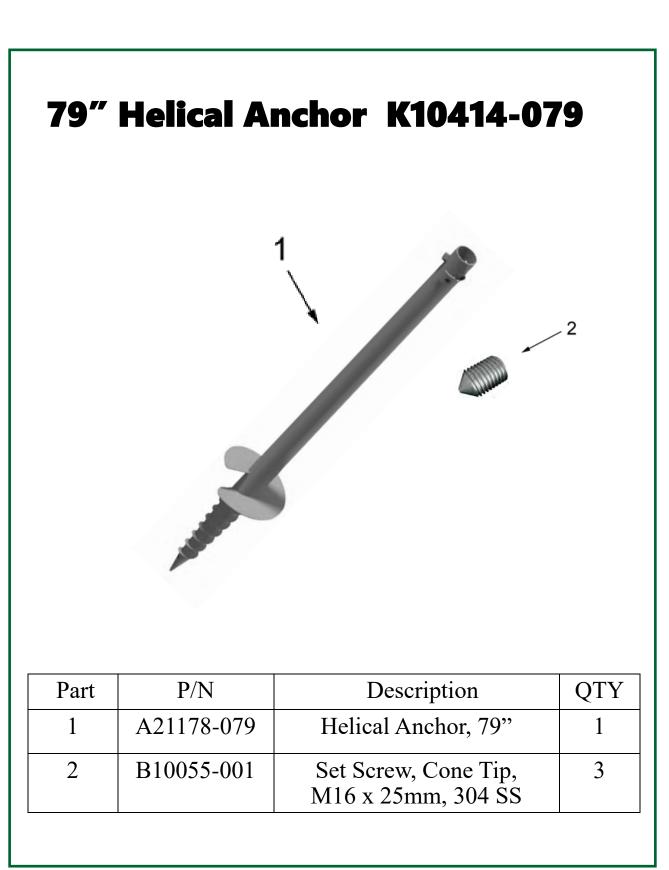


















Pub D10203-V006





UL50 Type 3R Enclosure • Stamped 18 gauge gal. steel • Powder coated finish • Weather tight

Enclosure Includes:

- Dual ground lug
- · Universal DIN rail
- 1/2". 3/4" & 1" knockouts
- · Wire strain relief clip
- Complete hardware package



INTRODUCED AT SOLAR POWER 2007





PV Roof-Mount Combiner/Enclosure

Benefits

- •The ability to prep the building is now possible
- Replaces several parts used today
- Provides professional looking install
- · Saves time on install
- Allows for easy access
- Guaranteed seal to roof
- Low profile design

For product information contact us at [866] 367-7782

www.commdeck.com



RSTC Enterprises, Inc 2219 Heimstead Road Eau Claire, WI 54703 1 (866) 367 - 7782





SolaDeck Part # 780

Specifications:

18 Gauge Steel Base (1) and Cover (2)
Pre Punched 7 holes in base (1) for roof deck
Pre Punched 4 holes in base (1) and cover (2) for match
Draw Process both parts
Powder Coated to withstand 1000 hours Salt Spray (Primer Gray)
High UV resistance
15" x 15" flashing dimension
Cavity dimension 8"W x 9" L x 2.5"D
Approx. 162 Cubic inch equipment cavity
Norloked steel base plate (3) to drawn base (2)
Three knockout locations .5", .75" and 1"
3" DIN rail installed
Grounding Lug- Installed (In Equipment Cavity)
Wire Strain Relief Clip –Installed (In Equipment Cavity)
Hardware pack withstands 500 hours Salt Spray

- 7 2" Trusshead Screws
- 4 .5" 8-32 thread cutting screws
- 4 #10 Bonded Seal washers
- 1 Foam closed Cell Seal

ETL Listed UL50 Type 3R

Total Weight 6.9 pounds each

Packaging:

Individually bagged and boxed
Box dimension 15.5"w x 16" L x 3" D
White Carton labeled with Cut out template
Print One Color - Black

Master Cartons of 6 Units each
Master Carton dimension 18.75"x16"x16.375"
Master Carton Weight – 42 pounds
18 Master Cartons per skid Approx 800 pounds with skid

SolarEdge Slim Current Transformer

SECT-SPL-225A-T-20



ACCESSORIES

Easily fits into home Main Service Panels, for simpler, faster installations

- Works seamlessly with SolarEdge consumption meters (external or built-in to the Energy Hub inverter)
- Boosts customer satisfaction by enabling real-time energy insight for greater electricity savings
- Increases installer revenue by creating more opportunities to expand system size or add smart capabilities like batteries, EV charging and smart energy devices
- High system accuracy (with SolarEdge meters) of +1.25%

- Clamp and split-core design, with single-handed installation
- Supports CT paralleling, enabling measurements of more load conductors
- Includes 17ft twisted pair cable, eliminating need for extension cable and additional labor when installing inverters with built-in consumption meter
- Simplified support and logistics with a single vendor



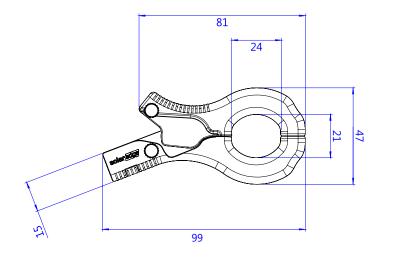
/ SolarEdge Slim Current Transformer

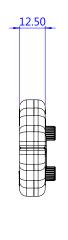
SECT-SPL-225A-T-20

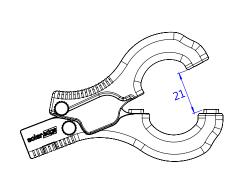
Model number: SECT-S1

		SECT-SPL-225A-T-20	UNITS
ELECTRICAL SP	ECIFICATION		
Accuracy (1% - 100% c	of rated current)	±1	%
CT Phase Angle (10%	- 100% of rated current)	< ±2.0	Degrees
Nominal Line Frequen	су	60 / 50	Hz
Current Rating		225 (@ 600 Vac)	А
Output Voltage		0 - 333	mVac
Overvoltage Category	/	CAT III 600V	Vac
Maximum Primary Cor	nductor Gauge	300	kcmil
Maximum Continuous		300	A
MECHANICAL	·		
Туре		Split core, clamp design	
Dimentions: Overall (H	H x W x L)	1.85 x 0.49 x 4.05 / 47 x 12.5 x 99	Inch / mm
Average Window Dian	meter	0.885 / 22.6	Inch / mm
	Туре	Twisted pair	MTW, UL 1015
Lead Wire	Length	17 / 5.2	ft/m
	Gauge	18 / 20 ⁽¹⁾	AWG
Material		Polycarbonate	
Weight		7.5 / 213	Oz/g
ENVIRONMENT	ΓAL		
Operating Temperatur	re Range	-40 to 140 / -40 to 60	°F/°C
Operating Humidity		5% to 90% relative humidity	
IP Rating		30 (NEMA 1)	
STANDARDS		·	
Safety for US/CAN		UL 2808 (XOBA) listed, meets 2017 NEC code requirements for field installation	
RoHS		Compliant	

^{(1) 18} AWG or 20 AWG can be used interchangeably









^{*} All dimensions are in millimeters





Safety switch, general duty, fusible, 60A, 2 poles, 15 hp, 120 VAC, NEMA 3R, bolt-on provision, neutral factory installed

D222NRB

Product availability: Stock - Normally stocked in distribution

facility

Price*: 326.00 USD

Main

Product	Single Throw Safety Switch
Duty Rating	General duty
Device Application	Residential
Disconnect Type	Fusible disconnect switch
Factory Installed Neutral	Neutral (factory installed)
Phase	3 phase
Number of Poles	2
Current Rating	60 A
Voltage Rating	240 V AC
Enclosure Rating NEMA	NEMA 3R
Maximum Horse Power Rating	1.5 hp 120 V at AC 60 Hz for 1 phase conforming to NEC 240.6 3 hp 120 V at AC 60 Hz for 3 phase conforming to NEC 430.52 3 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 240.6 7.5 hp 240 V at AC 60 Hz for 3 phase conforming to NEC 240.6 10 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 430.52 15 hp 240 V at AC 60 Hz for 3 phase conforming to NEC 430.52

Complementary

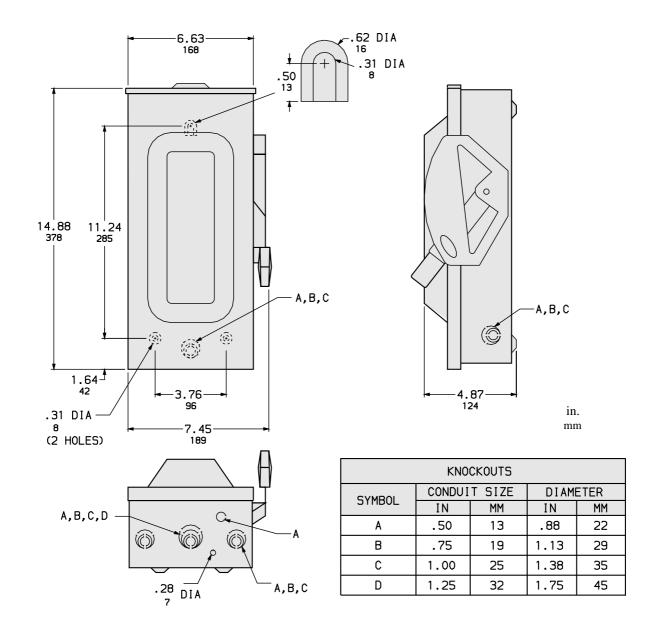
Short Circuit Current Rating	100 kA maximum depending on fuse H, K or R	
Fuse type	H, K or R	
Mounting Type	Surface	
Electrical Connection	Lugs	
Wiring configuration	3-wire	
Wire Size	AWG 12AWG 3 aluminium AWG 14AWG 3 copper	
Tightening torque	35 lbf.in (3.95 N.m) 0.000.01 in² (2.085.26 mm²) (AWG 14AWG 10) 35 lbf.in (3.95 N.m) (AWG 14AWG 10) 45 lbf.in (5.08 N.m) 0.01 in² (8.37 mm²) (AWG 8) 45 lbf.in (5.08 N.m) 0.020.03 in² (12.321.12 mm²) (AWG 6AWG 4) 50 lbf.in (5.65 N.m) 0.04 in² (26.67 mm²) (AWG 3)	
Depth	4.87 in (123.70 mm)	
Width	7.45 in (189.23 mm)	

^{*} Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Height	14.88 in (377.95 mm)
Net Weight	8.82 lb(US) (4 kg)
Environment	
Certifications	UL listed file E2875
Ordering and shipping d	etails
Category Category	00106-D & DU SW,NEMA3R, 30-200A
Discount Schedule	DE1A
GTIN	785901460640
Nbr. of units in pkg.	1
Package weight(Lbs)	8.25 lb(US) (3.742 kg)
Returnability	Yes
Country of origin	US
Packing Units	
Unit Type of Package 1	PCE
Package 1 Height	5.20 in (13.208 cm)
Package 1 width	7.70 in (19.558 cm)
Package 1 Length	16.20 in (41.148 cm)
Unit Type of Package 2	PAL
Number of Units in Package 2	120
Package 2 Weight	1022.00 lb(US) (463.571 kg)
Package 2 Height	45.00 in (114.3 cm)
Package 2 width	40.00 in (101.6 cm)
Package 2 Length	48.00 in (121.92 cm)
Offer Sustainability	Out a Day of the conduct
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
PVC free	Yes
Contractual warranty	
Warranty	18 months

Technical Illustration

Dimensions

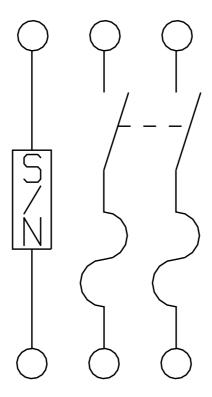


ALL DIMENSIONS ARE APPROXIMATE.
REFER TO TECHNICAL DRAWINGS AND DOCUMENTS

Technical Illustration

Wiring Diagram

FUSIBLE



D222NRB





Safety switch, general duty, fusible, 100A, 2 poles, 30 hp, 120 VAC, NEMA 3R, bolt-on provision, neutral factory installed

D223NRB

Product availability: Stock - Normally stocked in distribution

facility

Price*: 480.00 USD

Main

Product	Single Throw Safety Switch
Duty Rating	General duty
Device Application	Residential
Disconnect Type	Fusible disconnect switch
Factory Installed Neutral	Neutral (factory installed)
Phase	3 phase
Number of Poles	2
Current Rating	100 A
Voltage Rating	240 V AC
Enclosure Rating NEMA	NEMA 3R
Maximum Horse Power Rating	7.5 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 240.6 15 hp 240 V at AC 60 Hz for 3 phase conforming to NEC 240.6 15 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 430.52 30 hp 240 V at AC 60 Hz for 3 phase conforming to NEC 430.52

Complementary

100 kA maximum depending on fuse H, K or R
H, K or R
Surface
Lugs
3-wire
AWG 14AWG 1 copper AWG 12AWG 1 aluminium
35 lbf.in (3.95 N.m) 0.000.01 in² (2.085.26 mm²) (AWG 14AWG 10) 40 lbf.in (4.52 N.m) 0.01 in² (8.37 mm²) (AWG 8) 35 lbf.in (3.95 N.m) (AWG 14AWG 10) 45 lbf.in (5.08 N.m) 0.020.03 in² (12.321.12 mm²) (AWG 6AWG 4) 50 lbf.in (5.65 N.m) (AWG 3AWG 1)
6.5 in (165.10 mm)
10.56 in (268.22 mm)
17.5 in (444.50 mm)

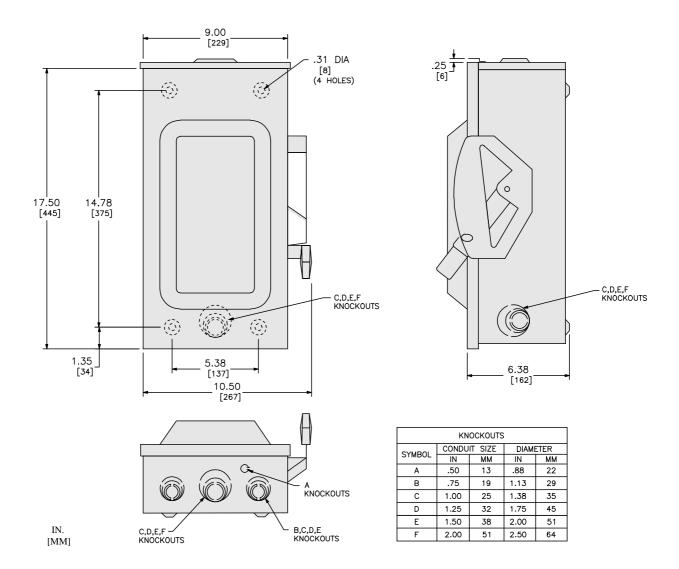
^{*} Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Life Is On Schneider

Product Weight	15.43 lb(US) (7 kg)
Environment	
Certifications	UL listed file E2875
Ordering and shipping of	letails
Category	00106-D & DU SW,NEMA3R, 30-200A
Discount Schedule	DE1A
GTIN	785901460701
Nbr. of units in pkg.	1
Package weight(Lbs)	15.60 lb(US) (7.076 kg)
	Yes
Returnability	
Country of origin	US
Packing Units	
Unit Type of Package 1	PCE
Package 1 Height	7.30 in (18.542 cm)
Package 1 width	10.80 in (27.432 cm)
Package 1 Length	20.00 in (50.8 cm)
Unit Type of Package 2	PAL
Number of Units in Package 2	40
Package 2 Weight	650.00 lb(US) (294.835 kg)
Package 2 Height	41.00 in (104.14 cm)
Package 2 width	41.00 in (104.14 cm)
Package 2 Length	48.00 in (121.92 cm)
Offer Sustainability	
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
PVC free	Yes
Contractual warranty	
Warranty	18 months

Technical Illustration

Dimensions



WHEN MOUNTING, ALLOW 4.00/[102] MIN. CLEARANCE BETWEEN ENCLOSURES FOR OPENING OF SIDE HINGED DOOR.

TOP OF NEM A TYPE 3R DEVICES H AVE PROVISIONS FOR MAX 2.50/[64] BO LT-ON HUB.

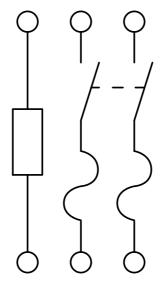
DU323RB REQUIRES FIELD INS TALLATION OF EQUIPMEN T GROUNDING KIT GTK0610 WHEN USED AS SERVICE EQUIPMEN T.

ALL DIMENSIONS ARE APPROXIMATE. REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE DE TAILS.

TI DIM GD1003

Technical Illustration

Wiring Diagram



223NRB CD223NRB