	PROJECT DETAILS				DRAWING INDEX
PV Modules	36 x REC ALPHA BLACK 375W	Item	Drawing #	Rev	Description
Optimizers	36 x P401	1	22273SM00-0	А	Drawing Index
Inverter	1 x SE11400H-US (RGM)	2	22273SM00-1	А	Site Layout
Roof Type	Asphalt Shingles	3	22273SM00-2	А	String Mapping
Racking	PSR-B84 Rails (Black)	4	22273SM00-3	А	Electrical One Line Diagram
		5	22273SM00-4	А	Detailed Electrical Wiring Schematic
Mounting Type	CompMount Flashing (Black)	6	22273SM00-5	А	PV Labels
DC SIZE	13.5 kW	7	22273SM00-6	А	Bill of Materials
AC SIZE	11.4 kVA	8	22273SM00-7	А	PV Dead Load

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

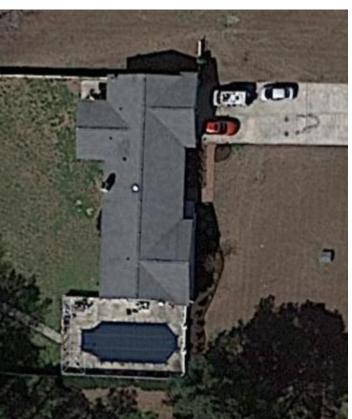
6. ALL CONDUCTORS SHALL BE COPPER AND SHOULD BE 75 AND 90 DEG RATED

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.

TOP VIEW OF BUILDING





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PV Installation Professional

Ali Buttar PVIP #031310-32

<u>A</u> 07/29/2022

Customer's Signature

JOB NUMBER

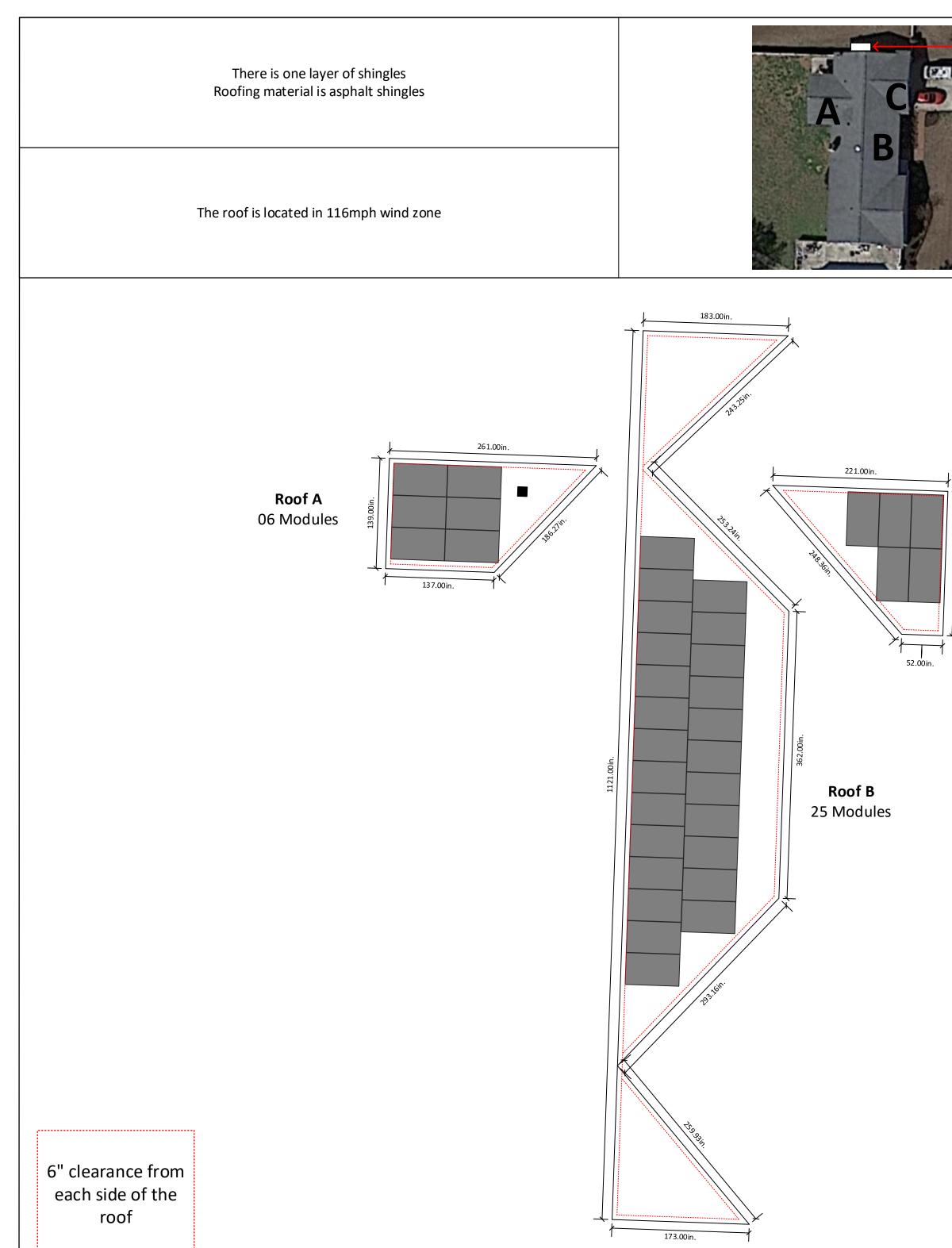
22-273-SM00

PROJECT STATUS

PERMITTING

SHEET

DRAWING INDEX



Utility Meter	Module Dimension	40.0 in.	7.8 in. <u> </u>
-10	Roofs	Pitch	Azimuth
	A	18°	182°
	В	18°	92°
	С	18°	182°



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SYSTEM DETAILS

NUMBER OF PANELS : 36 PANELS MODEL : REC ALPHA BLACK 375W DC SIZE : 13.5 kW AC SIZE : 11.4 kVA Anne Hollowell 1879 Oakridge Duncan Road Fuquay Varina NC 27526

Roof C 05 Modules



PV Installation Professional

Ali Buttar PVIP #031310-32

<u>A</u> 07/29/2022

Customer's Signature

JOB NUMBER

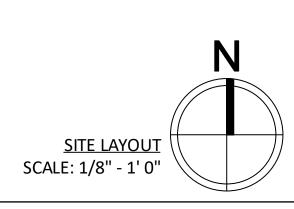
22-273-SM00

PROJECT STATUS

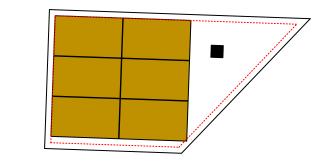
PERMITTING

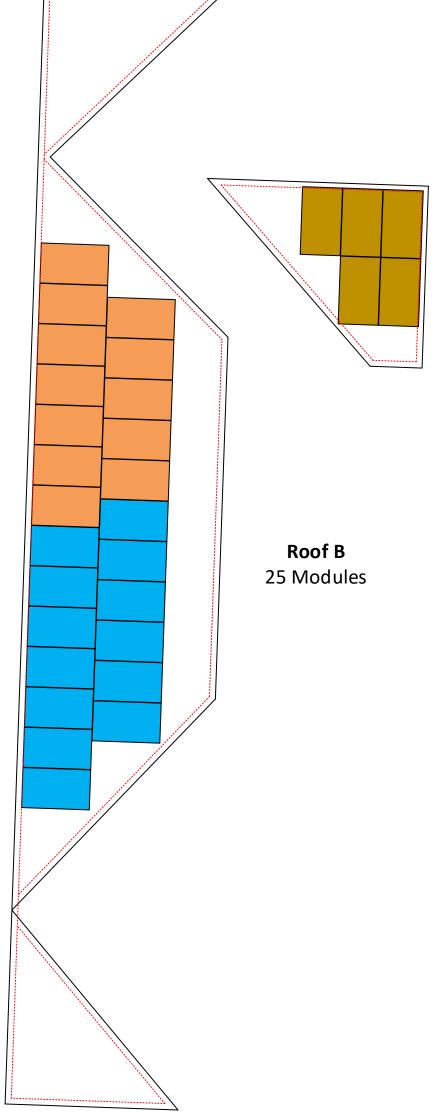
SHEET

SITE LAYOUT



	String Layout					
Inverte	r SE11400H-U	S (RGM)				
Strings #	No. of Modules	Color Code	Strings #	No. of Modules	Color Code	
String 1	13					
String 2	12					
String 3	11					





06 Modules

Roof A

6" clearance from each side of the roof



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SYSTEM DETAILS

NUMBER OF PANELS : 36 PANELS MODEL : REC ALPHA BLACK 375W DC SIZE : 13.5 kW AC SIZE : 11.4 kVA



Roof C 05 Modules



PV Installation Professional

Ali Buttar PVIP #031310-32

<u>A</u> 07/29/2022

Customer's Signature

JOB NUMBER

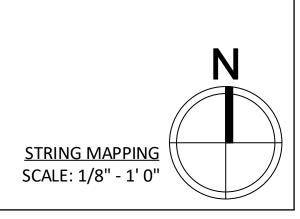
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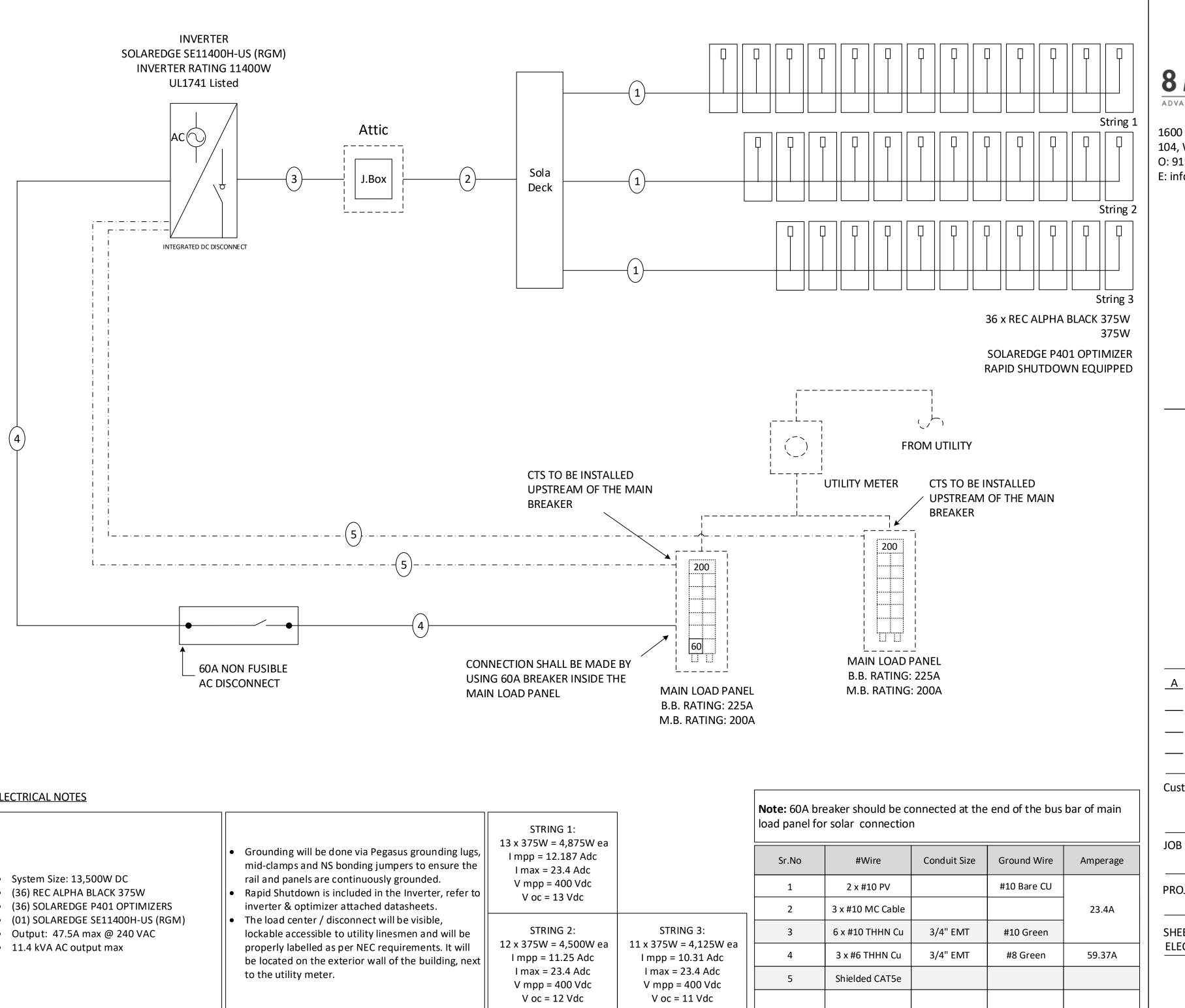
PROJECT STATUS

PERMITTING

SHEET

STRING MAPPING



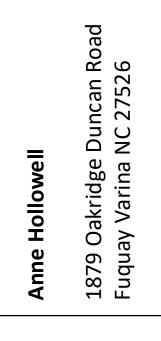


ELECTRICAL NOTES

 System Size: 13,500W DC (36) REC ALPHA BLACK 375W (36) SOLAREDGE P401 OPTIMIZERS (01) SOLAREDGE SE11400H-US (RGM) Output: 47.5A max @ 240 VAC 	 Grounding will be done via Pegasus grounding lugs, mid-clamps and NS bonding jumpers to ensure the rail and panels are continuously grounded. Rapid Shutdown is included in the Inverter, refer to inverter & optimizer attached datasheets. The load center / disconnect will be visible, lockable accessible to utility linesmen and will be 	STRING 1: 13 x 375W = 4,875W ea I mpp = 12.187 Adc I max = 23.4 Adc V mpp = 400 Vdc V oc = 13 Vdc STRING 2:	STRING 3:
• 11.4 kVA AC output max	properly labelled as per NEC requirements. It will be located on the exterior wall of the building, next to the utility meter.	12 x 375W = 4,500W ea I mpp = 11.25 Adc I max = 23.4 Adc V mpp = 400 Vdc V oc = 12 Vdc	11 x 375W = 4,125W ea I mpp = 10.31 Adc I max = 23.4 Adc V mpp = 400 Vdc V oc = 11 Vdc



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PV Installation Professional

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<u>07/29/2022</u>

Customer's Signature

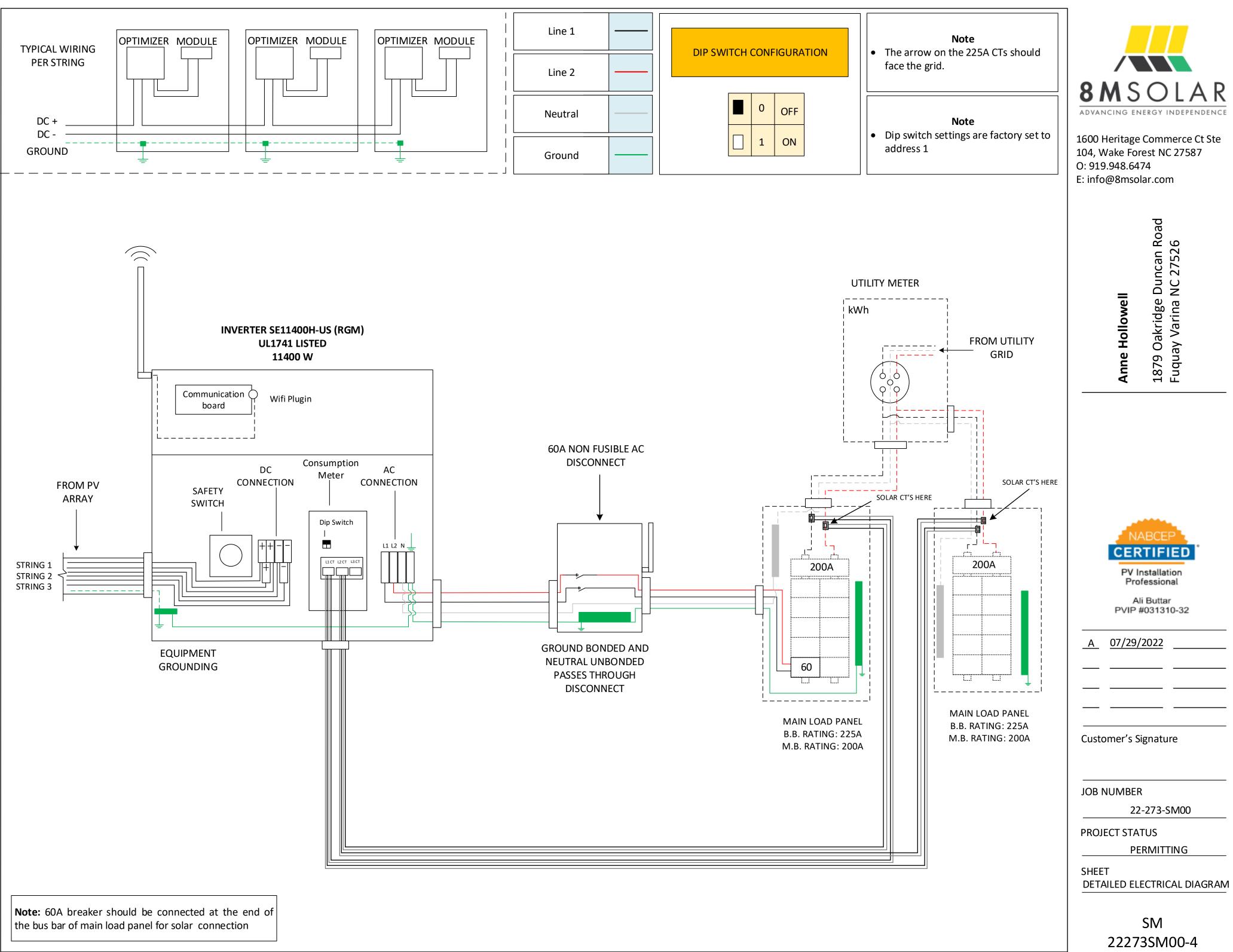
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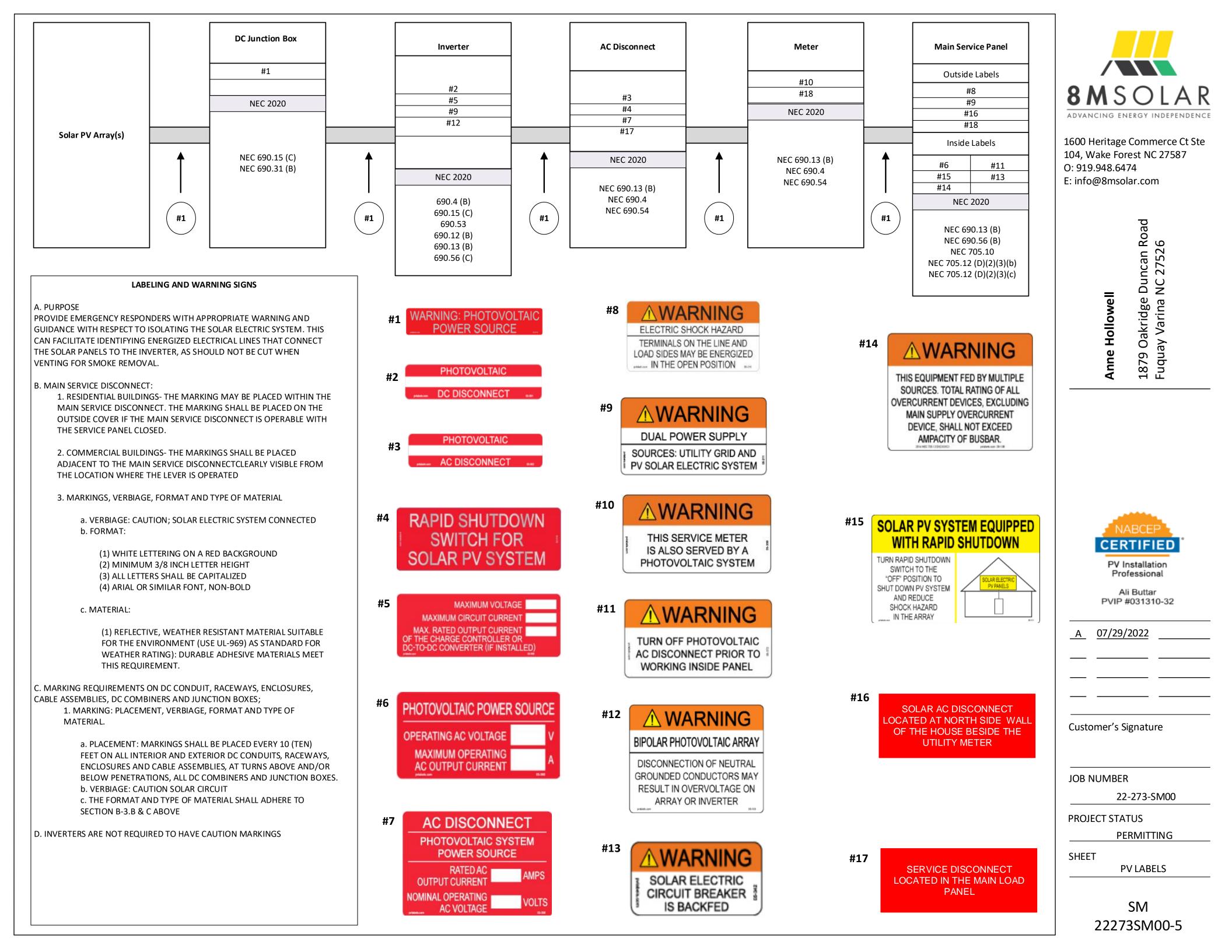
22-273-SM00

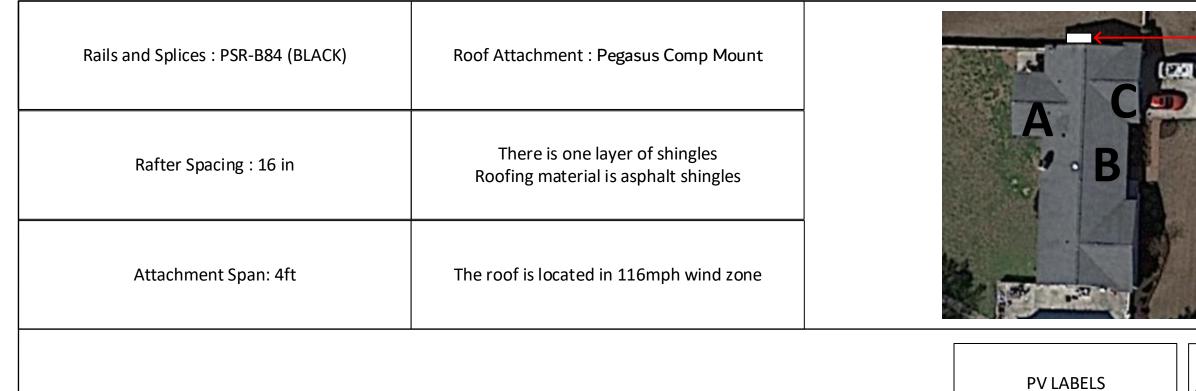
PROJECT STATUS

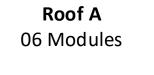
PERMITTING

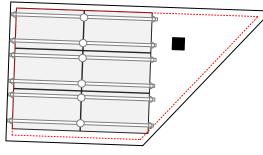
SHEET ELECTRICAL ONE LINE DIAGRAM

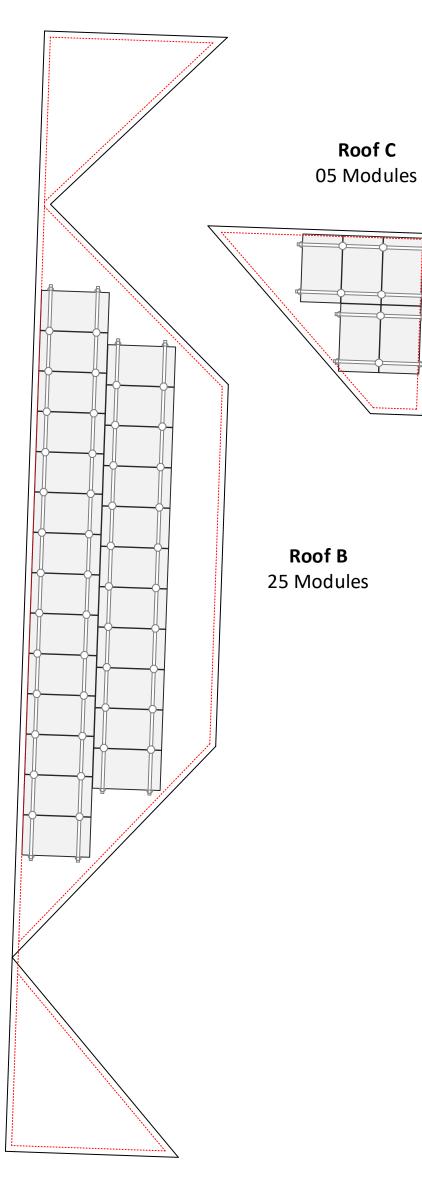












Sr No	Code	Qty
01	02-314	12
02	03-301	01
03	03-302	01
04	02-316	01
05	03-308	01
06	03-390	01
07	03-306	01
08	05-215	01
09	05-211	02
10	07-359	01
11	05-372	01
12	05-103	01
13	05-342	01
14	05-108	01
15	07-111	01
16	8M-001	01
17	8M-002	01

6" clearance from each side of the roof

Utility Meter	Module Dimension	67.8 in.		
-	Roofs	Pitch	Azimuth	
	А	18°	182°	
	В	18°	92°	
10	С	18°	182°	



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- 44 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet)
- 30 x PSR-SPL: Pegasus Bonded, Structural Splice
- 58 x PSR-MCB: Pegasus Multiclamp, Mid/End, 30 to 40 mm, Black
- 28 x PSR-HEC: Pegasus Hidden End Clamp
- 36 x PSR-MLP: Pegasus MLPE Mount
- 09 x PSR-LUG: Pegasus Grounding Lug
- 06 x PSR-NSJ: Pegasus N-S Bonding Jumper
- 54 x PSR-WMC: Pegasus Wire Management Clip
- 06 x PSR-CBG: Pegasus Cable Grip
- 28 x PSR-CAP: Pegasus End Cap
- 74 x PSCR-UBBDT: Pegasus Comp Mount Open Slot, Black L Foot, Black Flashing, Dovetail 3/8" T-Bolt
- 72 x Heyco Wire Clips

SOLAR MODULES

• 36 x REC ALPHA BLACK 375W

INVERTER & SUPPORTING ITEMS

- 01 x SolarEdge SE11400H-US US000BNI4 (RGM)
- 36 x SolarEdge Power Optimizer P401
- 01 x SE-WFGW-B-S1-NA with Antenna kit
- 04 x SolarEdge 225A CTs

WIRE

• 500 ft x #10 PV WIRE BLK (Cu)





PV Installation Professional

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<u>A</u> 07/29/2022

Customer's Signature

JOB NUMBER

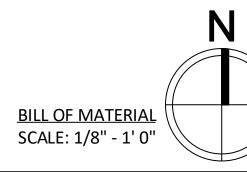
22-273-SM00

PROJECT STATUS

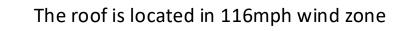
PERMITTING

SHEET

BILL OF MATERIAL



PV System Dead Load (Panel + Racking weight) / PV System Area (No. of panels x Weight of panel(lbs.) +Length of racking(ft.) x 1.17 lb.ft) / (No. of panels x Height x Width) = Total psf



There is one layer of shingles Roofing material is asphalt shingles



ROOF A

PV System Dead Load (Panel + Racking weight) / PV System Area (06 panels x 43 lbs./panel + 68 ft. of racking x 1.17 lb.ft) / (06 panels x 5.65' x 3.33') = 2.98 psf

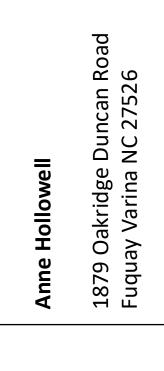
ROOF C

PV System Dead Load (Panel + Racking weight) / PV System Area (05 panels x 43 lbs./panel + 34 ft. of racking x 1.17 lb.ft) /(05 panels x 5.65' x 3.33') = 2.70 psf

Utility Meter	Module Dimension	67.8 in.		
-0	Roofs	Pitch	Azimuth	
	A	18°	182°	
	В	18°	92°	
10	С	18°	182°	
100				



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ROOF B

PV System Dead Load

(Panel + Racking weight) / PV System Area

(25 panels x 43 lbs./panel + 168 ft. of racking x 1.17 lb.ft) / (25 panels x 5.65' x 3.33') = 2.70 psf



PV Installation Professional

Ali Buttar PVIP #031310-32

07/29/2022 Α

Customer's Signature

JOB NUMBER

22-273-SM00

PROJECT STATUS

PERMITTING

SHEET

PV DEAD LOAD





RECALPHOX BLACK SERIES PRODUCT SPECIFICATIONS





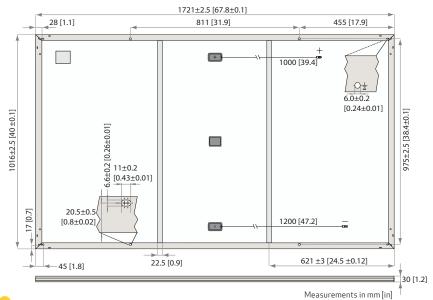






REC ALPHA BLACK SERIES > PRODUCT SPECIFICATIO

PRODUCT SPECIFICATIONS



GENERAL DATA

ELECTRICAL DATA

Cell type:	120 half-cut cells with REC heterojunction bifacial cell technology 6 strings of 20 cells in series	Connectors:
Glass:	0.13 in (3.2 mm) solar glass with anti-reflection surface treatment	Cable:
Backsheet:	Highly resistant polymeric construction (black)	Dimensions:
Frame:	Anodized aluminum (black)	Weight:
Junction box:	3-part, 3 bypass diodes, IP68 rated in accordance with IEC 62790	Origin:

Stäubli MC4PV-KBT4/KST4, 12 AWG (4 mm²) in accordance with IEC 62852

	IP68 only when connected
ble:	12AWG (4 mm²) PV wire, 39 + 47 in (1 + 1.2 m)in accordance with EN 50618
nensions:	67.8 x 40 x 1.2 in (1721 x 1016 x 30 mm)
ight:	43 lbs (19.5 kg)
igin:	Made in Singapore

Product Code*: RECxxxAA Black

	Power Output - P _{MAX} (Wp)	355	360	365	370	375
	Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
	Nominal Power Voltage - V _{MPP} (V)	36.4	36.7	37.1	37.4	37.8
Ы	Nominal Power Current - I _{MPP} (A)	9.77	9.82	9.85	9.90	9.94
ST	Open Circuit Voltage - V _{oc} (V)	43.6	43.9	44.0	44.1	44.2
	Short Circuit Current - I _{sc} (A)	10.47	10.49	10.52	10.55	10.58
	Power Density (W/sq ft)	18.9	19.1	19.4	19.7	19.9
	Panel Efficiency (%)	20.3	20.6	20.9	21.2	21.4
	Power Output - P _{MAX} (Wp)	271	274	278	282	286
ы	Nominal Power Voltage - V _{MPP} (V)	34.3	34.6	35.0	35.2	35.6
NMO	Nominal Power Current - I _{MPP} (A)	7.89	7.93	7.96	8.00	8.03
	Open Circuit Voltage - V _{oc} (V)	41.1	41.4	41.5	41.6	41.6
	Short Circuit Current - I _{sc} (A)	8.46	8.47	8.50	8.52	8.55

Values at standard test conditions (STC: air mass AM1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77°F (25°C), based on a production spread with a tolerance of P_{MAW} V_{cc} & I_{sc} ± 3% within one watt class. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s), * Where xxx indicates the nominal power class (P_{MAW}) at STC above.

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

CERTIFICATIONS				
IEC 61215:2016, IEC 61730:2016, UL 61730				
IEC 62804	PID			

	IEC 62804	PID
	IEC 61701	Salt Mist
	IEC 62716	Ammonia Resistance
	UL1703	Fire Type 2
	IEC 62782	Dynamic Mechanical Load
	IEC 61215-2:2016	Hailstone (35mm)
	AS4040.2 NCC 2016	Cyclic Wind Load
	ISO 14001:2004, ISO 9001:201	5, OHSAS 18001:2007, IEC 62941



WARRANTY

	Standard	REC I	ProTrust
Installed by an REC Certified Solar Professional	No	Yes	Yes
System Size	All	≤25 kW	25-500 kW
Product Warranty (yrs)	20	25	25
Power Warranty (yrs)	25	25	25
Labor Warranty (yrs)	0	25	10
Power in Year 1	98%	98%	98%
Annual Degradation	0.25%	0.25%	0.25%
Power in Year 25	92%	92%	92%
See warranty do	cuments for	details. Coi	nditions apply.

MAXIMUM RATINGS

Operational temperature:	-40+185°F (-40+85°C)
Maximum system voltage:	1000 V
Maximum test load (front):	+ 7000 Pa (146 lbs/sq ft)*
Maximum test load (rear):	- 4000 Pa (83.5 lbs/sq ft)*
Max series fuse rating:	25 A
Max reverse current:	25 A

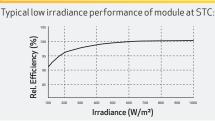
* See installation manual for mounting instructions. Design load = Test load / 1.5 (safety factor)

TEMPERATURE RATINGS*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P _{MAX} :	-0.26 %/°C
Temperature coefficient of V_{oc} :	-0.24 %/°C
Temperature coefficient of I _{sc} :	0.04 %/°C

*The temperature coefficients stated are linear values

LOW LIGHT BEHAVIOUR



Specifications subject to change without notice.



6

Single Phase Inverter with HD-Wave Technology

for North America

solaredge

HDwave

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

0



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)



/ 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-XXXXBXX4						
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)	-	\checkmark	-	✓	-	-	✓	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	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
Power Factor			1	, Adjustable - 0.85 to	0.85		1	
GFDI Threshold				1				A
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	380			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				600ka Sensitivity				
Maximum Inverter Efficiency	99			ç	9.2			%
CEC Weighted Efficiency				99			99 @ 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

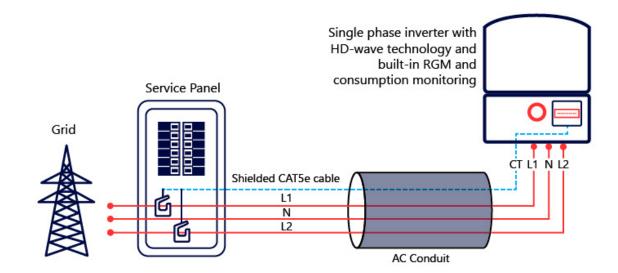
MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
ADDITIONAL FEATURES				u da		1	l	•
Supported Communication Interfaces			RS485, Ethernet,	ZigBee (optional), C	ellular (optional)			
Revenue Grade Metering, ANSI C12.20								
Consumption metering				Optional ⁽³⁾				
Inverter Commissioning		With the SetA	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, Canadiar	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	num / 1-2 strings / 14	4-6 AWG		1'' Maximum / 1-3 :	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 +6	0(4)			°F/°C
Protection Rating			NEMA 42	K (Inverter with Safet	y Switch)			
(2) Investor with Bayersus Crede Mater B/NI C	Energy LLUCOOORNIC 4. Inc.	wanter with Deversion Con	de Dreduction and Can	automation Mater D/NH CC				-

(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

(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

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



Power Optimizer

For North America P370 / P400 / P401 / P485 / P505



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							
OUTPUT DURING OPERATIO	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 I	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 Phas	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	0307	MC4(3)	0007 1.0	MC4(3)	MC4(3)	9.7.0	
				metri			
			0.16 / 0.5				
Input Wire Length			0.16 / 0.5 Double Insulated / MC4			m / ft	
Input Wire Length Output Wire Type / Connector			Double Insulated / MC4				
Input Wire Length Output Wire Type / Connector Output Wire Length			Double Insulated / MC4 1.2 / 3.9			m / ft	
Input Wire Length Output Wire Type / Connector			Double Insulated / MC4				

(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

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

(3) For other connector types please contact SolarEdge

(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	6		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

(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

(2) 1 -PH Inverters

requirement.

SE3000A-US / SE3800A-US / SE5000A-US / SE6000A-US / SE7600A-US / SE10000A-US / SE11400A-US / SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-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



Total Quality. Assured.

SE9KUS / SE10KUS / SE14.4KUS/ SE16.7kUS / SE17.3kUS / SE20KUS/ SE24KUS / 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

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

intertek Total Quality. Assured.

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"



RAIL SYSTEM

Instant Bonding

The N-S Bonding Jumper bonds row to row with no tools.



One Clamp Anywhere

The Multi-Clamp works as mid- or end-clamp, and fits standard 30-40mm frames.

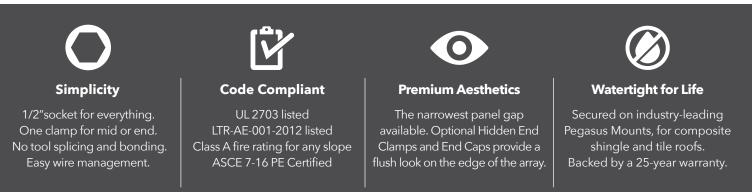
Lifetime Wire Management

- Open rail channel holds and protects wires. Clamps won't pinch wires after tightening.

Bonding Structural Splice Connect rails instantly, without tools, interference or limitations.

Next-Level Solar Mounting

A complete system for hassle-free rooftop installation, from watertight mounts to lifetime wire management.





RAIL SYSTEM



Patents pending. All rights reserved. ©2021 Pegasus Solar Inc. 500 for efference only. Spans above are calculated using ASCE 7-16 for a Gable Roof, Exposure Category B, 7-20deg roof angle, 30ft mean roof height with non-exposed modules. For PE certified span tables, visit www.pegasussolar.com/spans.



COMP MOUNT



Simple 3-Piece Design ⊘ Watertight For Life

Pegasus solar's comp mounts are a cost effective, high-quality option for rail installations on composition shingle roofs. Designed to last decades, the one-piece flashing with elevated cone means there is simply nothing to fail.



25-Year Warranty

Manufactured with advanced materials and coatings to outlast the roof itself



Code Compliant

Fully IBC/CBC Code Compliant Exceeds ASCE 7-16 Standards



Superior Waterproofing

Tested to AC286 without sealant Water seal elevated 0.9" above



All-In-One Kit Packaging

Flashings, L-Feet and SS lags with bonded EPDM washers are included in each 24-pack



COMP MOUNT

1 Drill pilot hole in the center of the rafter.

Place L-Foot over cone

and install lag with

washer through



2

Optional: Apply a "u-shape" of sealant to the underside of the flashing and position under 2nd shingle course, cone over pilot hole.



4

Drive lag to required depth. Attach rail per rail manufacturer's instructions.



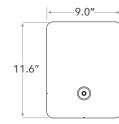


3

L-Foot.









SPECIFICATIONS	COMP MOUNT INSTALL KITS					
SKU	PSCR-CBB0 PSCR-UBB0		SPCR-CBBH	PSCR-CMM0	PSCR-UMM0	
Finish	Blac	k L-Foot And Black Flash	ing	N	lill	
L-Foot Type	Closed Slot	Open Slot	Closed Slot	Closed Slot	Open Slot	
Kit Contents	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	5/16" x 4 1/2" SS Lag with metalized EPDM washer and M10 Hex		L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	L-Foot, Flashing, 5/16" x 4 1/2" SS Lag with metalized EPDM washer	
Roof Type	Composition Shingle					
Certifications		IBC, ASCE/SEI 7-16, AC286				
Install Application	Railed Systems					
Compatible Rail	Most					
Kit Quantity	24					
Boxes per Pallet			72			

Protected under US Patent: 10,998,847. Additional patents pending. All rights reserved. ©2021 Pegasus

$A{}_{CCU} extsf{-}CT^{\circ}$ ACTL-0750 Series

Split-Core Current Transformer Installation Guide



Danger: Hazardous Voltages

Potential shock hazard from dangerous high voltage exists.

The ACTL-0750 series Accu-CT current transformers measure AC line current in circuits up to 600 Vac and nominal currents up to 250 Amps. They are split-core (opening) for ease of installation.

They may be field installed within distribution and control equipment such as panelboards, switchboards, industrial control equipment, energy-monitoring, and energy management equipment, to measure current on the service entrance or branch circuit conductors.

The Accu-CT is used with electric energy meters, like the WattNode meters, or for other current monitoring purposes.

Precautions

- A WARNING: This product can expose you to chemicals including diisononyl phthalate (DINP), which is known to the State of California to cause cancer. For more information go to: www.P65Warnings.ca.gov.
- Only qualified personnel or **licensed electricians** should install the current transformer (CT). The line voltages of 120 Vac to 600 Vac can be lethal!
- Install in accordance with ANSI/NFPA 70, "National Electrical Code" (NEC). Follow all local electrical codes.
- The NEC prohibits installation of CTs in equipment where they exceed 75% of the wiring space of any cross-sectional area.
- Do not install CTs where they block ventilation openings.
- Do not install CTs in the area of breaker arc venting.
- The Accu-CT lead wires are considered Class 1 wiring (as defined by the NEC) and must be installed accordingly. They are not suitable for Class 2 wiring methods and should not be connected to Class 2 equipment.
- Verify that the line currents will not exceed the "Maximum Amps" (see the Models table below) under normal operation.
- Do not install the CT where it may be exposed to temperatures below -30°C or above 80°C (-22°F to 176°F), excessive moisture, dust, salt spray, or other contamination.
- The Accu-CT can be damaged by sharp impacts or by being dropped. This can result in reduced accuracy.
- The current transformer cannot measure direct current (DC), and excessive DC will degrade the AC accuracy.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Pre-Installation Checklist

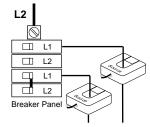
• The CT's rated current should normally be greater than or equal to the maximum current of the measured circuit. Ensure that the fuse or circuit breaker's rating does not exceed the CT's maximum continuous current rating.

- It is preferable to install the CT and meter or monitoring device close to each other. However, you may extend the CT wires by 300 feet (100 m) or more by using shielded twisted-pair cable and by running the CT wires away from high current and line voltage conductors.
- For highest accuracy, try to separate the CTs on different phases by 1.0 inch (25 mm) to minimize magnetic interference.

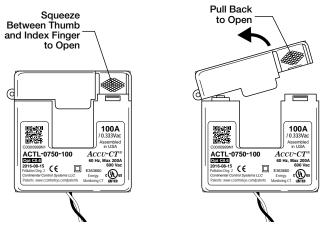
Connecting the Current Transformer

- WARNING: To reduce the risk of electric shock, always open or disconnect the circuit from the power-distribution system (or service) of the building before installing or servicing current transformers.
- 2) Point the SOURCE arrow toward the current source: the utility meter or the circuit breaker for branch circuits.

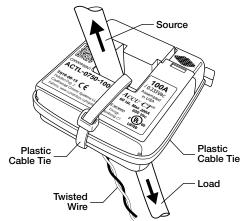
Note: If the CT is mounted backwards, the measured power will be negative.



3) To open the CT, squeeze the knurled panels, then pull and rotate the top open.



- 4) Make sure the mating surfaces are clean. Debris will increase the magnetic gap, decreasing accuracy.
- 5) Place the CT around the conductor and close the CT.



- 6) Optional: Secure the CT to the conductor with a cable tie.
- Optional: For added security, wrap a cable tie around the outside of the CT.
- 8) Route the twisted black and white wires from the CT to the meter or monitoring device. Be sure to secure the CTs and route the lead wires so that they do not directly contact live terminals or busses.
- 9) Connect the white and black wires to the terminals on the meter or monitoring device.

Note: If the white and black wires are reversed, the measured power will be negative.

Note: On a WattNode meter, the white wire should be aligned with the white dot on the label, and the black wire should be aligned with the black dot on the label.

Note: Be careful to match the CT to the voltage phases being measured. Make sure the $\phi A CT$ is measuring the current on the ϕA conductor, and the same for phases B and C. Use colored labels or tape to identify the wires.

References

- <u>https://ctlsys.com/warranty-and-return-policy/</u> Warranty
- https://ctlsys.com/product/accu-ct-actl-0750-split-core-ct/
- https://ctlsys.com/cat/current-transformer/ CT articles
- For information about connecting CTs to WattNode meters, see the appropriate WattNode meter manual.

Specifications

Models

Model	Rated Amps	Maximum Amps
ACTL-0750-005	5 A	75 A
ACTL-0750-015	15 A	150 A
ACTL-0750-020	20 A	150 A
ACTL-0750-030	30 A	200 A
ACTL-0750-050	50 A	200 A
ACTL-0750-070	70 A	200 A
ACTL-0750-100	100 A	200 A
ACTL-0750-150	150 A	300 A
ACTL-0750-200	200 A	350 A ⁽¹⁾
ACTL-0750-250	250 A	400 A ⁽¹⁾

Models in BOLD are stock items with shorter lead times.

"Maximum Amps" are the maximum continuous currents the CTs can sustain without overheating.

⁽¹⁾For operation above 60°C, limit the maximum amps to 300.

Electrical

Overvoltage and Measurement Categories:

CAT IV (service entrance): 250 Vac

CAT III: 600 Vac

Line Frequency: 50 to 60 Hz

Standard Accuracy (% of reading)

Accuracy: ±0.75% from 1% to 120% of rated primary current

Phase angle: ±0.50 degrees (30 minutes) from 1% to 120% of rated current

IEEE C57.13 accuracy: class 1.2 from 1% to 120% of rated current IEC 60044-1 accuracy: class 1.0 from 1% to 120% of rated current

Revenue Grade Accuracy (% of reading)

With Option C0.6, the Accu-CT is calibrated to meet IEEE/ANSI C57.13-2008 class 0.6 accuracy and IEC 60044-1 class 0.5 S accuracy and each CT is shipped with a certificate of calibration.

Accuracy: ±0.50% from 1% to 120% of rated primary current

- **Phase angle:** ±0.25 degrees (15 minutes) from 1% to 120% of rated current; ±0.50 degrees (30 minutes) below 0°C from 1% to 10% of rated current
- IEEE C57.13 accuracy: class 0.6 from 1% to 120% of rated current
- IEC 60044-1 accuracy: class 0.5 and 0.5 S from 1% to 120% of rated current
- Available Models: Option C0.6 is available for all models except ACTL-0750-005
- **Note:** The ACTL-0750-250 accuracy may be degraded if operated above 40°C and 100% of rated current simultaneously.

Type: Voltage output, integral burden resistor

Protection: includes internal clamp zener at 8 Vac

Output Voltage at Rated Amps: 0.33333 Vac (one-third volt)

- Optional: 1.000 Vac (add "-1V" to the end of the model number)
- Wire: 2.4 m (8 feet), 20 AWG (18 AWG prior to March 2021); custom lengths available

Maximum Voltage: 600 Vac

UL Listing: E363660, UL 2808, XOBA

Environmental

Operating Temperature: -30°C to 80°C (-22°F to 176°F) up to 300 A; -30°C to 60°C (-22°F to 140°F) up to 400 A

Operating Humidity: Non-condensing, 5 to 95% relative humidity (RH)

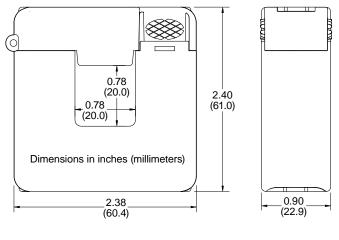
Pollution: POLLUTION DEGREE 2

Indoor Use: Suitable for indoor use.

Outdoor Use: Suitable for outdoor use when mounted in a NEMA 3R or 4 (IP 66) rated enclosure, provided the ambient temperature will not exceed 80°C (176°F).

Mechanical

Weight: 201 gm (7.1 oz)



+1 (303) 444-7422

https://www.ctlsvs.com

Revision Date: 2021-02-23

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Continental

Systems, LLC

Control

nec Group





UL50 Type 3R Enclosure • Stamped 1 8 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

Product data sheet Characteristics

QOU260 QOU Miniature Circuit Breaker, 60A, 2P, 120/240V, 10kA



Product availability: Stock - Normally stocked in distribution facility



Main	
Product or component type	Miniature circuit-breaker
Range of product	QOU
Circuit breaker type	Standard
Circuit breaker applica- tion	HACR and Switching Duty rated

Complementary

Line Rated Current	60 A		
Number of Poles	2P		
Interrupt Rating	10 KA 120/240 V AC 10 KA 120 V AC 5 kA 48 V DC		
Electrical connection	Slotted box lugs, line side Slotted box lugs, load side		
[Ue] rated operational voltage	120/240 V AC 120 V AC 48 V DC		
Mounting mode	Unit mount		
AWG gauge	AWG 14AWG 2 aluminium/copper		
Height	102.87 mm (4.05 in)		
Depth	74.93 mm (2.95 in)		
Width	38.10 mm (1.5 in)		
Tightening torque	5.08 N.m (45 lbf.in) AWG 14AWG 2)	5.08 N.m (45 lbf.in) AWG 14AWG 2)	

Environment

Ordering and shipping details

Category	00900 - QOU BREAKERS & SWITCH		
Discount Schedule	DE2		
GTIN	00785901418801		
Package weight(Lbs)	0.36 kg (0.8 lb(US))		
Returnability	Yes		
Country of origin	MX		



Offer Sustainability Sustainable offer status Green Premium product **REACh Regulation** REACh Declaration EU RoHS Directive Compliant Compli Mercury free Yes RoHS exemption information Yes China RoHS Regulation China RoHS Declaration Environmental Disclosure Product Environmental Profile Circularity Profile No need of specific recycling operations Halogen content performance Halogen free product

Contractual warranty

Warranty

18 months

Product data sheet

Specifications



Safety switch, general duty, non fusible, 60A, 2 poles, 10 hp, 240 VAC, NEMA 3R, bolt-on provision

DU222RB

Product availability : Stock - Normally stocked in distribution facility

Price*: 353.00 USD

Main	
Product	Single Throw Safety Switch
Duty Rating	General duty
Device Application	Residential
Disconnect Type	Non-fusible disconnect switch
Factory Installed Neutral	None
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	10 hp 240 V at AC 60 Hz for 1 phase conforming to NEC 430.52

Complementary

Mounting Type	Surface
Electrical Connection	Lugs
Wiring configuration	2 wires
Wire Size	AWG 12AWG 3 aluminium AWG 14AWG 3 copper
Tightening torque	35 lbf.in (3.95 N.m) 0.000.01 in ² (2.085.26 mm ²) (AWG 14AWG 10) 35 lbf.in (3.95 N.m) (AWG 14AWG 10) 45 lbf.in (5.08 N.m) 0.01 in ² (8.37 mm ²) (AWG 8) 45 lbf.in (5.08 N.m) 0.020.03 in ² (12.321.12 mm ²) (AWG 6AWG 4) 50 lbf.in (5.65 N.m) 0.04 in ² (26.67 mm ²) (AWG 3)
Depth	3.75 in (95.25 mm)
Width	7.75 in (196.85 mm)
Height	9.63 in (244.60 mm)
Net Weight	16.98 lb(US) (7.7 kg)

Environment

Certifications

UL listed file E2875

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

Ordering and shipping details

Category	00106-D & DU SW,NEMA3R, 30-200A	
Discount Schedule	DE1A	
GTIN	785901491491	
Nbr. of units in pkg.	1	
Package weight(Lbs)	4.65 lb(US) (2.109 kg)	
Returnability	Yes	
Country of origin	MX	

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	5.30 in (13.462 cm)
Package 1 width	7.20 in (18.288 cm)
Package 1 Length	10.00 in (25.4 cm)
Unit Type of Package 2	PAL
Number of Units in Package 2	120
Package 2 Weight	610.00 lb(US) (276.691 kg)
Package 2 Height	36.50 in (92.71 cm)
Package 2 width	40.00 in (101.6 cm)
Package 2 Length	48.00 in (121.92 cm)
Unit Type of Package 3	CAR
Number of Units in Package 3	5
Package 3 Weight	24.60 lb(US) (11.158 kg)
Package 3 Height	10.70 in (27.178 cm)
Package 3 width	10.20 in (25.908 cm)
Package 3 Length	23.50 in (59.69 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		
Toxic heavy metal free	Yes		
Mercury free	Yes		
RoHS exemption information	Yes		
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)		
Environmental Disclosure	Product Environmental Profile		
PVC free	Yes		

Contractual warranty

Warranty

18 months

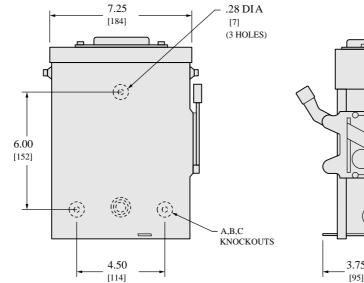


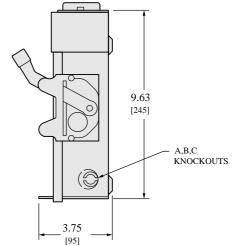
Product data sheet

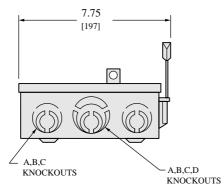
DU222RB

Technical Illustration

Dimensions







NEMA TYPE 3R

IN. [mm]

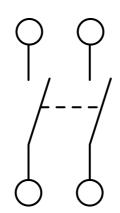
KNOCKOUTS				
SYMBOL	А	В	С	D
CONDUIT SIZE (IN.)	.50	.75	1	1.25

TOP OF NEM A TYPE 3R SWITCHES H AVE PROVISIONS FOR MAXIMUM 2 1/2" BO LT-ON HUB. ALL DIMENSIONS ARE APPROXIMATE. REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION.

Product data sheet

Technical Illustration

Wiring Diagram



DU222RB

DU222RB

