PV MODULES						
MAKE	URECO					
MODEL	FBM400MFG-BB					
TECHNOLOGY	MONO-CRYST.					
NOM. POWER (PNOM)	400 WATTS					
NOM. VOLT. (VMP)	3I.I7 VOLTS					
O.C. VOLT. (Voc)	37.20 VOLTS					
MAX. SYS. VOLT.	1000 V (UL)					
TEMP. COEF. (VTc)	-0.27 %/°C					
NOM. CURR. (IMP)	12.84 AMPS					
S.C. CURR. (Isc)	13.68 AMPS					
MAX. SERIES FUSE	30 AMPS					

MODULE OPTIMIZER					
MAKE	SOLAREDGE				
MODEL	S440				
DC INPUT:					
RATED POWER	440 WATTS				
VOLT. RANGE	8-60				
MAX. SCC	I4.5 AMPS				
DC OUTPUT:					
MAX. CURRENT	I5 AMPS				
MAX. VOLT.	60 VOLTS				
MAX. SYSTEM VOLT.	1000 VOLTS				
MIN. STRING	8 OPTIMIZERS				
MAX. STRING	25 OPTIMIZERS				
MAX. POWER	5700 WATTS				

DC/AC INVERTER						
MAKE	SOLAREDGE					
MODEL	SEI0000H-US					
TECHNOLOGY	TRANS-LESS					
DC INPUT:						
MAX. POWER	15500 WATTS					
MAX. VOLT	480 VOLTS					
NOM. VOLT.	400 VOLTS					
MAX. CURRENT	27 AMPS					
MAX. SCC	45 AMPS					
STRINGS INPUTS	3 STRINGS					
AC OUTPUT:						
RATED POWER	10000 WATTS					
MAX. POWER	10000 WATTS					
NOM. VOLT.	240 VOLTS					
MAX. CURR.	42 AMPS					
GFP (Y/N)	YES					
RPP (Y/N)	YES					
GFCI (Y/N)	YES					
AFCI (Y/N)	YES					
DC DISC. (Y/N)	YES					
RAPID SHUTDOWN	AUTOMATIC					
FUSE RATING	I5 AMPS					
PROTECT. RATING	NEMA 4X					
	·					

	CONDUCTOR SCHEDULE												
TAG CURRENT CARRYING CONDUCTORS GROUNDING CONDUCTORS CONDUIT/RACEWAY						NOTES							
IAG	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	LOCATION	NOTES
CI	2	I0 AWG	COPPER	PV WIRE	ı	6 AWG	COPPER	BARE WIRE	-	-	-	FREE AIR	ı
C2.I	2	IO AWG	COPPER	THWN-2	I	10 AWG	COPPER	THWN-2	ı	1/2"	FMC/EMT/MC	EXT/INT	2,4
C2.2	4	IO AWG	COPPER	THWN-2	I	10 AWG	COPPER	THWN-2	I	3/4"	FMC/EMT/MC	EXT/INT	2,4
C3	3	6 AWG	COPPER	THWN	I	10 AWG	COPPER	THWN	I		NOTE 5	EXTERIOR	2,4,5
XC	-	-	_	-	-	-	-	-	-	-	-	-	3

NOTES:

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED
- EXISTING CONDUCTORS, FIELD VERIFY
- EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR
- 5. PVC, EMT, ROMEX, LFNMC & FMC ARE ACCEPTABLE WHEN USED IN ACCORDANCE WITH ARTICLES 330, 334, 348, 350, 352, 356, & 358 OF THE

JUNCTION BOX						
MAKE	SOLADECK					
MODEL	0799-5B					
PRO. RATING	NEMA 3R					
VOLT. RATING	1000 VOLTS					
AMP RATING (DC)	180 AMPS					
UL LISTING	UL 50					

NOTES:

PROVIDE ADDITIONAL JUNCTION BOXED AS REQUIRED TO COMBINE MODULES ON DIFFERENT ARRAYS INTO A SINGLE STRING

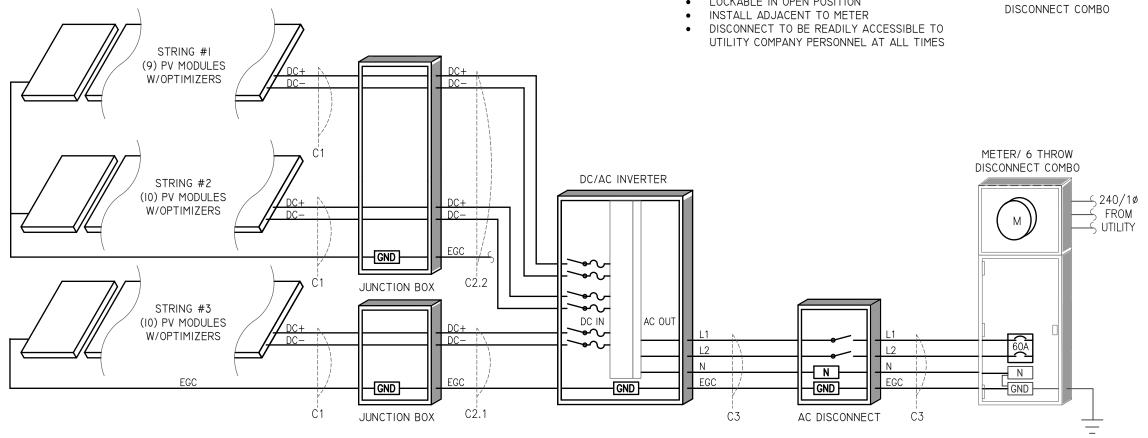
AC DISCONNECT					
MAKE	GENERIC				
MODEL	N/A				
ENCL. RATING	NEMA 3R				
VOLT. RATING	240 VOLTS				
AMP RATING	60 AMPS				
UL LIST. (Y/N)	YES				
FUSED (Y/N)	NO NO				
FUSE RATING	N/A				

NOTES:

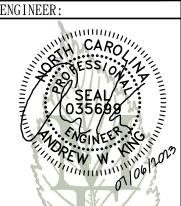
- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION

METER/ 6 THROW DISCONNECT COMBO (EXISTING)					
MAKE	N/A				
MODEL	N/A				
ENCL. RATING	NEMA 3R				
VOLT. RATING	240 VOLTS				
BUS RATING	200 AMPS				
UL LIST. (Y/N)	YES				
MAIN BREAKER (Y/N)	NO				
BREAKER RATING	N/A				

 BACK-FEED SOLAR OUTPUT VIA 60A BREAKER INSIDE OF METER/ 6 THROW







MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM P-1194

JOB TITLE:

NEW SOLAR PV SYSTEM

11.600 kW DC INPUT 10.000 kW AC EXPORT

Mario Hernandez 705 Avery Pond Dr, Fuquay-Varina, NC 27526

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CLIENT:



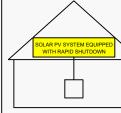
ISSUED FOR:	DATE:
CONSTRUCTION	06/07/23
	RICAL
LNEORN	MATION

EQUIPMENT LABELS

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



NEC 690.56 (C)(1)(a)

PLACE WITHIN 3FT OF SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATIONS OF RAPID SHUTDOWN SWITCHES

PV SYSTEM DISCONNECT

NEC 690.13 (B)
PLACE ON PV SYSTEM DISCONNECTING MEANS.

≜WARNING

DUAL POWER SUPPLY
SOURCES: UTILITY GRID AND

PV SOLAR ELECTRIC SYSTEM

NEC 705.12 (B)(3) PLACE ON ALL EQUIPMENT THAT IS SUPPLIED

MARNING

ELECTRIC SHOCK HAZARD

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

NEC 690.13 (B) PLACE ON PV SYSTEM DISCONNECTING MEANS.

MARNING

POWER SOURCE
OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

NEC 705.12 (B)(2)(3)(b)
PLACE ADJACENT TO BACK-FED BREAKER

WARNING: PHOTOVOLTAIC POWER SOURCE

NEC 690.31 (G)(3)&(4)
PLACE ON ALL JUNCTION BOXES, EXPOSED RACEWAYS, AND OTHER
WIRING METHODS EVERY 10' AND ON EVERY SECTION SEPARATED BY
ENCLOSURES. WALLS, PARTITIONS. CEILINGS. OR FLOORS.

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

NEC 690.56 (C)(3)
PLACE ON RAPID SHUTDOWN SWITCH OR EQUIPMENT
WITH INTEGRATED RAPID SHUTDOWN *REFLECTIVE*

FED BY MULTIPLE POWER SOURCES

TOTAL RATING OF ALL
OVERCURRENT DEVICES EXCLUDING
UTILITY OVERCURRENT
DEVICE SHALL NOT EXCEED

AMPACITY OF BUSBAR

NEC 705.12 (B)(2)(3)(c)
PLACE ADJACENT TO BACK-FED BREAKER

EQUIPMENT LABEL NOTES

- LABELS SHOWN ARE 1/2 THEIR ACTUAL REQUIRED SIZE.
 LABEL MATERIAL SHALL BE SUITABLE
- LABEL MATERIAL SHALL BE SUITABL FOR THE EQUIPMENT ENVIRONMENT.
 CONDUIT SHALL BE MARKED WITH REQUIRED LABEL EVERY IO FEET.

DIRECT CURRENT PHOTOVOLTAIC POWER SOURCE

MAXIMUM VOLTAGE 600 VDC MAX CIR. CURRENT 45 AMPS

NEC 690.53

PLACE ON ALL DC DISCONNECTING MEANS

PHOTOVOLTAIC POWER SOURCE

OPERATING AC VOLT. 240 VAC

MAXIMUM OPERATING 42.43

MAXIMUM OPERATING
42 AMPS

NEC 690.54 PLACE ON INTERCONNECTION DISCONNECTING MEANS

CONSTRUCTION NOTES

- I. ALL WORK AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL, STATE, AND LOCAL CODES AND ORDINANCES
- 2. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, BEST PRACTICES, AND SPECIFICATIONS
- 3. WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS
- 4. THE PHOTOVOLTAIC SYSTEM SHALL NOT EXCEED 600 VOLTS OR 800 AMPS
- 5. EACH ELECTRICAL APPLIANCE SHALL BE PROVIDED WITH A NAMEPLATE GIVING THE IDENTIFYING NAME AND THE RATING IN VOLTS AND AMPERES, OR VOLTS AND WATTS. IF THE APPLIANCE IS TO BE USED ON A SPECIFIC FREQUENCY OR FREQUENCIES, IT SHALL BE SO MARKED. WHERE MOTOR OVERLOAD PROTECTION EXTERNAL TO THE APPLIANCES IS REQUIRED. THE APPLIANCE SHALL BE SO MARKED
- WHERE APPLICABLE, GROUNDING ELECTRODE CONDUCTOR TO BE CONTINUOUS. GROUNDING CRIMPS TO BE IRREVERSIBLE
- 7. IN ONE- AND TWO-FAMILY DWELLINGS, LIVE PARTS IN PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OVER 150 VOLTS TO GROUND, SHALL ONLY BE ACCESSIBLE TO QUALIFIED PERSONS WHILE ENERGIZED.
- 8. PHOTOVOLTAIC SYSTEMS SHALL BE PERMANENTLY MARKED AT VARIOUS EQUIPMENT LOCATIONS TO IDENTIFY THAT A PHOTOVOLTAIC SYSTEM IS INSTALLED AND THAT VARIOUS DANGERS ARE PRESENT.
- 9. EACH PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A PHOTOVOLTAIC SYSTEM DISCONNECT
- 10. WHERE ALL TERMINALS OF A DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A WARNING SIGN SHALL BE MOUNTED ON OR ADJACENT TO THE DISCONNECT
- I. A PERMANENT LABEL FOR THE DIRECT-CURRENT PHOTOVOLTAIC POWER SOURCE SHALL BE PROVIDED BY THE INSTALLED AT THE DC DISCONNECT MEANS
- I2. A PERMANENT PLAQUE OR DIRECTORY, DENOTING ALL ELECTRIC POWER SOURCES SERVING THE PREMISES, SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION AND AT LOCATIONS OF ALL POWER PRODUCTION SOURCES.
- I3. A PERMANENT PLAQUE OR DIRECTORY SHALL BE PROVIDED DENOTING THE LOCATIONS OF THE SERVICE DISCONNECT MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECT MEANS IF THEY ARE NOT LOCATED AT THE SAME LOCATION.
- I4. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC SECTION 690.4 (C)

HICTION NOTES MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

JOB TITLE:

ENGINEER:

NEW SOLAR PV SYSTEM

P-1194

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CLIENT:



ISSUED FOR:	DATE:
CONSTRUCTION	06/07/23
	_

PV4.2

ELECTRICAL INFORMATION



FBM MFG-BB / 108 cells 390W - 405 W Mono-Crystalline PV Module

URE Peach module uses URE state-of -the art cell cutting technology, and advanced module manufacturing experiences.













Key Features



Positive power tolerance +0 ~ +5 watt



Withstand heavy loading front load 5400 Pa & rear load 2400 Pa



Excellent low light performance 3.5% relative eff. Reduction at low $(200W/m^2)$



100% EL inline inspection Better module reliability



Design for 1000 VDC Reduce the system BOS effectively





Electrical Data

Model - STC		FBM390MFG-BB	FBM395MFG-BB	FBM400MFG-BB	FBM405MFG-BB
Maximum Rating Power (Pmax)	[W]	390	395	400	405
Module Efficiency	[%]	19.98	20.23	20.49	20.75
Open Circuit Voltage (Voc)	[V]	36.84	37.03	37.20	37.36
Maximum Power Voltage	[V]	30.82	31.00	31.17	31.36
Short Circuit Current (Isc)	[A]	13.50	13.59	13.68	13.78
Maximum Power Current	[A]	12.66	12.75	12.84	12.92

^{*}Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5

Mechanical Data

Item	Specification	
Dimensions	1723 mm (L) ¹ x 1133 mm (W) ¹ x 35 mm (D) ² /	
	67.83" (L)1 x 44.61" (W)1 x 1.38" (D)2	
Weight	21.7 kg / 47.84 lbs	
Solar Cell	12x9 pieces monocrystalline solar cells series strings	
Front Glass	White toughened safety glass, 3.2mm thickness	
Cell Encapsulation	EVA (Ethylene-Viny-Acetate)	
Frame	Black anodized aluminum profile	
Junction Box	IP≥ 68, 3 diodes	
Cable & Connector	Potrait: 500 mm (cable length can be customized), 1 x 4 mm ²	
	compatible with MC4	
Package Configuration	31 pcs Per Pallet, 806 pcs per 40' HQ container	

- 1: With assembly tolerance of ± 2 mm [± 0.08 °]

Operating Conditions

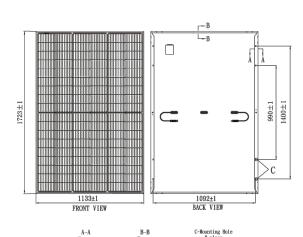
Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1000V
Series Fuse Rating	30 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

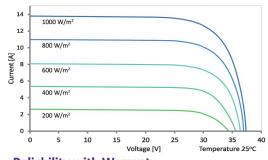
Temperature characteristics				
Item	Specification			
Nominal Module Operating Temperature	45°C ± 2°C			
Temperature Coefficient of Isc	0.048 % / °C			
Temperature Coefficient of Voc	-0.27 % / °C			
Temperature Coefficient of Pmax	-0.32 % / °C			

^{*}Nominal module operating temperature (NMOT): Air mass AM 1.5,

Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



For more information, please visit us at www.urecorp.com

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ENGINEER:

EN



MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM P-1194

JOB TITLE:

NEW SOLAR PV SYSTEM

11.600 kW DC INPUT 10.000 kW AC EXPORT

Mario Hernandez 705 Avery Pond Dr, Fuquay-Varina, NC 27526

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CLIENT:



ISSUED FOR:	DATE:		
CONSTRUCTION	06/07/23		
LABELS,			
DETAILS & SPECS			

URECO_US_Peach_FBM_MFG-BB_V1_3.2_35mm_BS_EN_211019

^{*}Values without tolerance are typical numbers. Measurement tolerance: \pm 3%

irradiance $800W/m^2$, temperature $20^{\circ}C$, windspeed 1 m/s. *Reduction in efficiency from $1000W/m^2$ to $200W/m^2$ at $25^{\circ}C$: $3.5 \pm 2\%$.

Power Optimizer For Residential Installations

S440, S500



Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior. preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space utilization
- Compatible with bifacial PV modules



/ Power Optimizer For Residential Installations

S440, S500

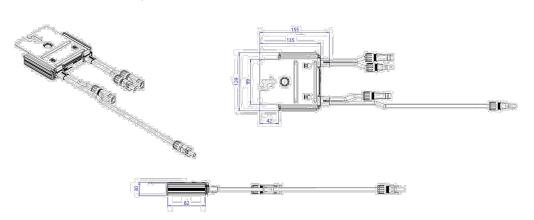
	S440	S500	UNIT
Rated Input DC Power ⁽¹⁾	440	500	W
Absolute Maximum Input Voltage (Voc)	60		Vdc
MPPT Operating Range	8 - 6	50	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15	Adc
Maximum Efficiency	99.	5	%
Weighted Efficiency	98.	6	%
Overvoltage Category	· · · · · · · · · · · · · · · · · · ·		
OUTPUT DURING OPERATION			
Maximum Output Current	15		Adc
Maximum Output Voltage	60		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	CONNECTED FROM INVERTER OR	INVERTER OFF)	
Safety Output Voltage per Power Optimizer	1		Vdc
STANDARD COMPLIANCE			· ·
EMC	FCC Part 15 Class B, IEC61000-6-2,	IEC61000-6-3, CISPR11, EN-55011	
Safety	IEC62109-1 (class II safety), UL1741		
Material	UL94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			·
Maximum Allowed System Voltage	100	0	Vdc
Dimensions (W x L x H)	129 x 15	5 x 30	mm
Weight (including cables)	655 / 1.5		gr/lk
Input Connector	MC4 ⁽²⁾		
Input Wire Length	0.1		m
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10	m
Operating Temperature Range ⁽³⁾	-40 to	+85	°C
Protection Rating	IP68 / NE	MA6P	
Relative Humidity	0 - 1	00	%

(2) For other connector types please contact SolarEdge (3) For ambient temperature above +70°C / +158°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Using a SolarEdge Inverter		Single Phase HD-Wave	Three Phase	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500	8	16	18	
Maximum String Length (Power Optimizers)		25	5	50	
Maximum Nominal Power per String ⁽⁴⁾		5700	11250 ⁽⁵⁾ 12750 ⁽⁶⁾		W
Parallel Strings of Different Length:	rallel Strings of Different Lengths or Orientations				

(4) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
(5) For the 230/400V grid: it is allowed to install up to 13,500W per string when the maximum power difference between each string is 2,000W
(6) For the 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

(7) It is not allowed to mix S-series and P-series Power Optimizers in new installations



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ENGINEER:



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CLIENT:

CE RoHS



ISSUED FOR:	DATE:		
CONSTRUCTION	06/07/23		
EQUIPMENT			
SPEC SHEETS			

^{*} Functionality subject to inverter model and firmware version

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 efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for
 Optional: Revenue grade data, ANSI C12.20 NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance

- Extremely small
- Built-in module-level monitoring
- Outdoor and indoor installation
- Class 0.5 (0.5% accuracy)



/ Single Phase Inverter with HD-Wave Technology for North America

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

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
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
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		38	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			99	9.2			%
CEC Weighted Efficiency			g	99			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W
ADDITIONAL FEATURES								
Supported Communication Interfaces			RS485, Etherne	t, ZigBee (optional), C	ellular (optional)			
Revenue Grade Data, ANSI C12.20		Optional ⁽³⁾						
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rapi	d Shutdown upon AC	Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL1741,	, UL1741 SA, UL1699B,	CSA C22.2, Canadian	AFCI according to T.	I.L. M-07		
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)							
Emissions				FCC Part 15 Class B				
INSTALLATION SPECIFICATION	ONS							
AC Output Conduit Size / AWG Range		1"	" Maximum / 14-6 AW	/G		1" Maximum	n /14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1-2 strings / 14-6 AWG 1' Maximum / 1-3 strings / 14-6 AWG							
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174 21.3 x 14.6 x 7.3 / 540 x 370 x 185					/ 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			-13 to +140 /	-25 to +60 ⁽⁴⁾ (-40°F /	-40°C option) ⁽⁵⁾			°F/°C
Protection Rating			NEMA 4	4X (Inverter with Safet	y Switch)			

To For other regional settings please contact SolarEdge support

A higher current source may be used; the inverter will limit its input current to the values stated
Revenue grade inverter P/N: SExxxXH-US000NNC2
For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf
-40 version P/N: SExxxXH-US000NNU4

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MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

JOB TITLE:

NEW SOLAR PV SYSTEM

11.600 kW DC INPUT 10.000 kW AC EXPORT

Mario Hernandez 705 Avery Pond Dr, Fuquay-Varina, NC 27526

CLIENT:



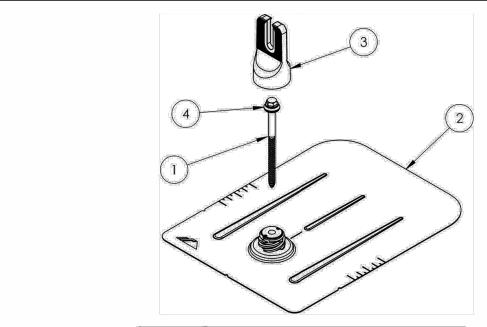
ISSUED FOR: CONSTRUCTION 06/07/23 EQUIPMENT SPEC SHEETS

Cut Sheet

v1.21



FlashFoot2

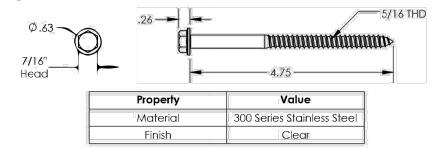


ITEM NO.	DESCRIPTION	
1	BOLT LAG 5/16 X 4.75"	
2	AŞSY, FLASHING	
3	ASSY, CAP	
4	WASHER, EPDM BACKED	

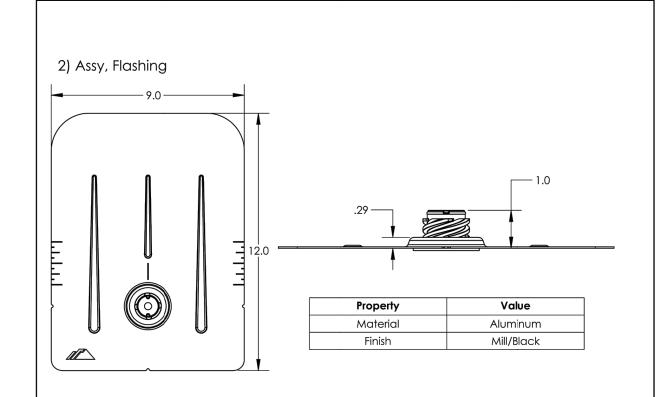
FLASHFOOT 2

Part Number	Description
FF2-01-M1	FLASHFOOT2, MILL
FF2-01-B1	FLASHFOOT2, BLACK

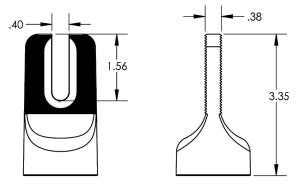






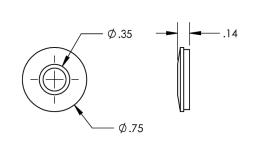


3) Assy, Cap



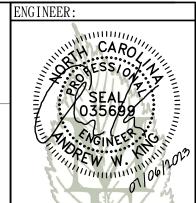
Property	Value
Material	Aluminum
Finish	Mill/Black

4) Washer, EPDM Backed



Property	Value
Material	300 Series Stainless Steel
Finish	Clear

v1.21



MODEL ENERGY

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P-1194

JOB TITLE:

NEW SOLAR PV SYSTEM

11.600 kW DC INPUT 10.000 kW AC EXPORT

Mario Hernandez 705 Avery Pond Dr, Fuquay-Varina, NC 27526

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CLIENT:



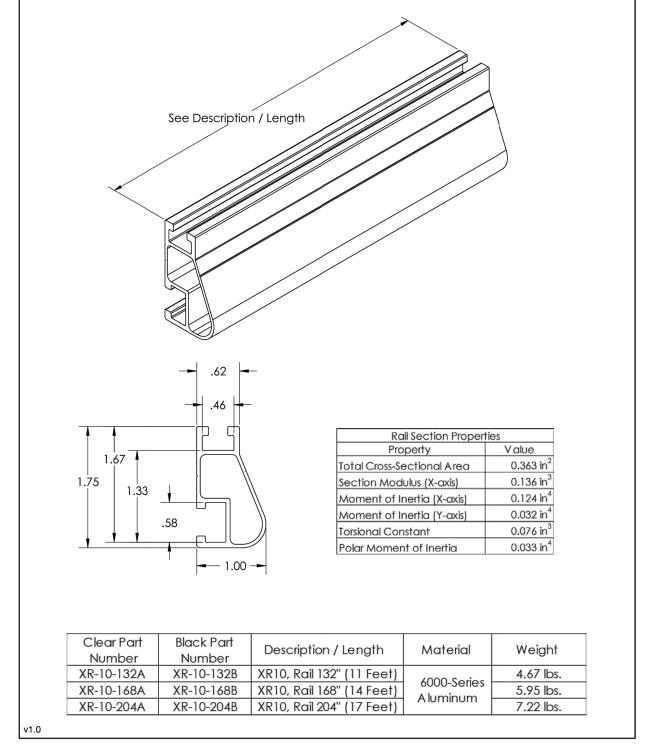
ISSUED FOR:	DATE:	
CONSTRUCTION	06/07/23	
EQUIPMENT		
SPEC SHEETS		

PV5.4

Cut Sheet

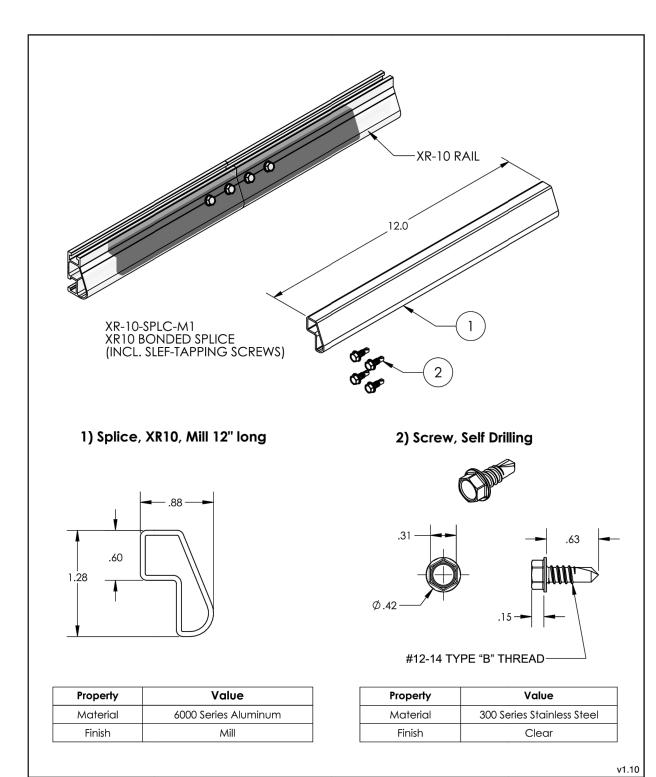


XR10 Rail









MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

P-1194

JOB TITLE:

ENGINEER:

NEW SOLAR PV SYSTEM

11.600 kW DC INPUT 10.000 kW AC EXPORT

Mario Hernandez 705 Avery Pond Dr, Fuquay-Varina, NC 27526

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CLIENT:



- 1					
	ISSUED FOR:	DATE:			
	CONSTRUCTION	06/07/23			
	EQUIPMENT SPEC SHEETS				
	SPEC SHEETS				

PV5.5

Customer: Mario Hernandez

Installer: Ready Solar

Subject: PV System Structural Compliance

Date: 06/07/23

MODEL ENERGY

300 Fayetteville St. #1430 Raleigh, NC 27602 919-274-9905 ModelEnergy.com

P-1194

To whom it may concern:

Model Energy, PLLC has reviewed the installation details of the proposed PV system that is to be installed by Ready Solar at 705 Avery Pond Dr, Fuquay-Varina, NC 27526. The conditions of the existing structure have been reviewed and validated by Model Energy, PLLC. The existing roof structure has been designed to support the additional loads of the proposed PV system. In addition, the racking and fastening system shall be capable of securing the system to the structure under design conditions when installed properly and in accordance with the racking and fastening arrangement detailed within the accompanying permit set. The installation design is compliant with current 2018 North Carolina state and national building codes.

Thank you,

Andrew King, PE

