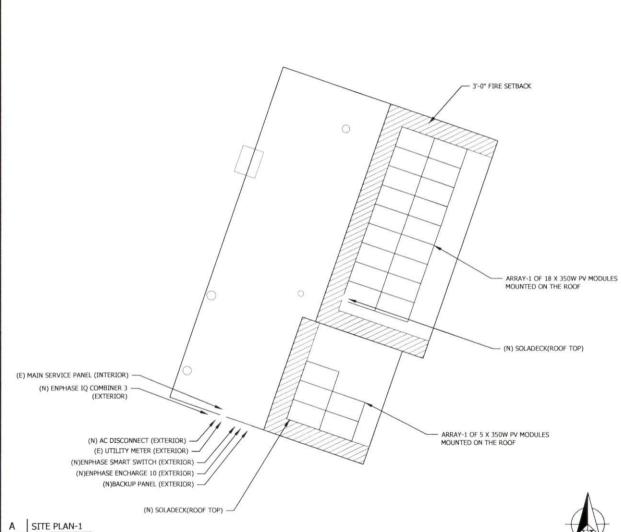
# THOMAS LAFOUNTAIN - 8.050kW DC, 5.520kW AC, 10.5kWh SYSTEM STORAGE

### SITE PLAN-1



1. CONDUIT RUN IS IN ATTIC



A1	AERIAL MAP
S-001	SCALE: NTS

GENERAL INFOR	MATION
ELECTRIC CODE	NEC 2017
FIRE CODE	NCFC 2018
RESIDENTIAL CODE	NCRC 2018
BUILDING CODE	NCBC 2018
WIND SPEED	119 MPH
SNOW LOAD	10 PSF

	INDEX				
INDEX NO.	DESCRIPTION				
5-001	SITE PLAN-1				
S-002	SITE PLAN-2				
G-001	GENERAL NOTES				
S-003	MOUNTING DETAILS				
5-004	STRUCTURAL DETAILS				
E-001	SINGLE LINE DIAGRAM				
E-002	WARNING PLACARDS				
SS	SPEC SHEET(S)				
33	Si EC Si IEE ((S)				



# SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W ANNUAL SOLAR OUTPUT: 9528 kWh/an MODULES:

(23)HANWHA Q CELL Q.PEAK DUO-G6+ 350W INVERTER:

(23)ENPHASE IQ7-60-2-US BRANCH DETAILS:

1 BRANCH OF 12 MICRO-INVERTERS(12 MODULES) 1 BRANCH OF 11 MICRO-INVERTERS(11 MODULES) STORAGE:

(1) ENPHASE ENCHARGE 10, 10.5kWh

### ENGINEER OF RECORD

### **CUSTOMER INFORMATION**

NAME & ADDRESS: THOMAS LAFOUNTAIN 71 SPIRAL BRANCH, COURT LINDEN, NC 28356 35°16'07.4"N 78°52'48.4"W APN:053-552-773-8

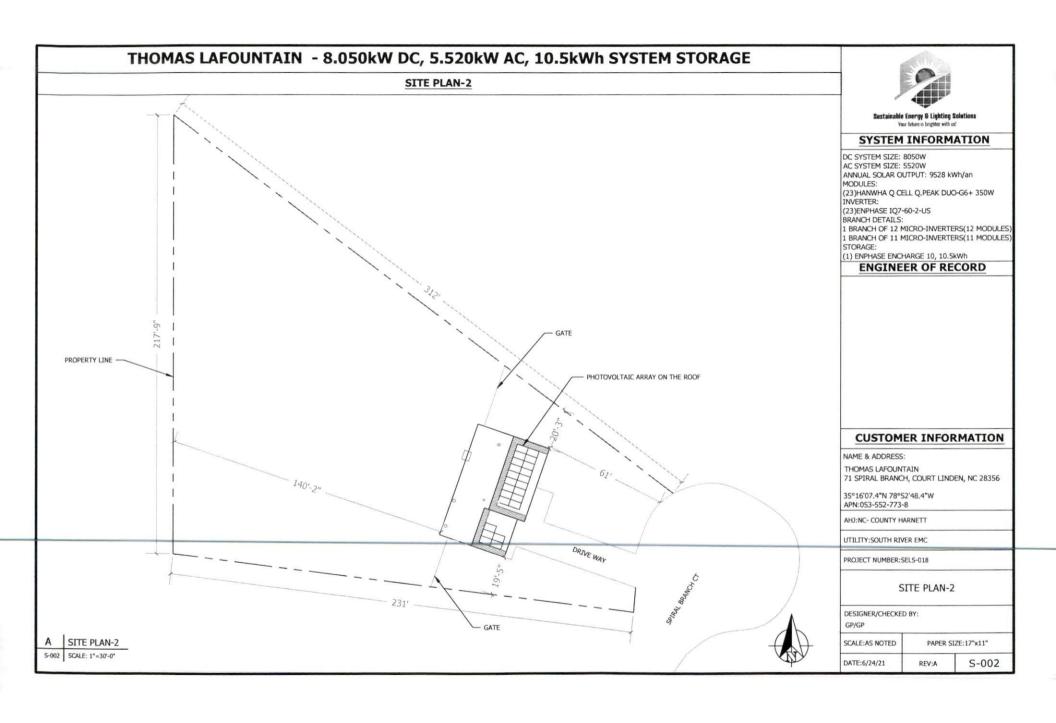
AHJ:NC- COUNTY HARNETT
UTILITY:SOUTH RIVER EMC

PROJECT NUMBER:SELS-018

### SITE PLAN-1

DESIGNER/CHECKED BY:

SCALE: AS NOTED	PAPER S	IZE:17"x11"
DATE:6/24/21	REV:A	S-001



### **GENERAL NOTES**

### **GENERAL NOTES**

- MODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE STANDARDS.
- 2. INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.
- DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION MIGHT VARY.
- WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26(A)(1).
- ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/ SERVICE FOLIPMENT.
- ALL CONDUCTORS SHALL BE 600V, 75°C STANDARD COPPER UNLESS OTHERWISE NOTED.
- WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA
  REGULATIONS.
- THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
- ROOF ACCESS POINT SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREES, WIRES OR SIGNS.
- 10. PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING

### EQUIPMENT LOCATION:

- 11. ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26(A)(1).
- WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31(A),(C) AND NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C).
- 13. JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690,34.
- ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
- ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- 16. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE

### STRUCTURAL NOTES:

- 17. RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAIL MANUFACTURERS INSTRUCTIONS.
- JUNCTION BOX WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
- ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED WITH APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.
- WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

### WIRING & CONDUIT NOTES:

- ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE, CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 23. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 24. DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS.
- 25. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE\*\*, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE (NEC 110.15).

### INTERCONNECTION NOTES:

- 26. LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 690.64(B)]
- THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS INPUT MAY NOT EXCEED 120% OF BUSBAR RATING [NEC 705.12(D)(2)(3)].
   WHEN SUM OF THE PV SOURCES EQUALS >100% OF BUSBAR RATING, PV DEDICATED BACKFFED BREAKERS
- MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(D)(2)(3)]. 29. AT MULTIPLE PV OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVER CURRENT DEVICES SHALL NOT
- EXCEED AMPACTY OF BUSBAR. HOWEVER, THE COMBINED OVER CURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12(D)(2)(3)(C).
- FEEDER TAP INTER CONNECTION (LOAD SIDE) ACCORDING TO NEC 705.12(D)(2)(1)SUPPLY SIDE TAP
  INTERCONNECTION ACCORDING TO NEC 705.12(A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE
  WITH NEC 230.42 BACK FEEDING BREAKER FOR UTILITY-INTERACTIVE INVERTER OUTPUT IS EXEMPT FROM
  ADDITIONAL FASTENING [NEC 705.12(D)(S)].

### **GROUNDING NOTES:**

- GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
- 32. PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC 250.122.
- 33. METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45 AND MICRO INVERTER MANUFACTURER'S INSTRUCTIONS.
- 35. EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION PEOLITEMENTS.
- THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]
- THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250.NEC 690.47 AND AHJ.
- GROUND-FAULT DETECTION SHALL COMPLY WITH NEC 690.5 IN GENERAL AND NEC 690.5(A)(1)
- 40. DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:
- DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS)
- 42. DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH
- RAPID SHUTDOWN OF ENERGIZED CONDUCTORS BEYOND 10 FT OF PV ARRAY OR 5 FT INSIDE A BUILDING WITHIN 10 SECONDS. CONTROLLED CONDUCTORS ≤30V AND ≤240VA [NEC 690.12]. LOCATION OF LABEL ACCORDING TO ALI.
- 44. ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8,690.9 AND 240.
- MICRO INVERTER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B). 2.6.7 IF REQUIRED BY 4HJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.



# Sustainable Energy & Lighting Solutions Your future is brighter with us!

# SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W ANNUAL SOLAR OUTPUT: 9528 kWh/an

MODULES: (23)HANWHA Q CELL Q.PEAK DUO-G6+ 350W

INVERTER: (23)ENPHASE IQ7-60-2-US

BRANCH DETAILS: 1 BRANCH OF 12 MICRO-INVERTERS(12 MODULES) 1 BRANCH OF 11 MICRO-INVERTERS(11 MODULES)

(1) ENPHASE ENCHARGE 10, 10.5kWh

### **ENGINEER OF RECORD**

### **CUSTOMER INFORMATION**

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35°16'07.4"N 78°52'48.4"W APN:053-552-773-8

AHJ:NC- COUNTY HARNETT

UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: SELS-018

GENERAL NOTES

DESIGNER/CHECKED BY:

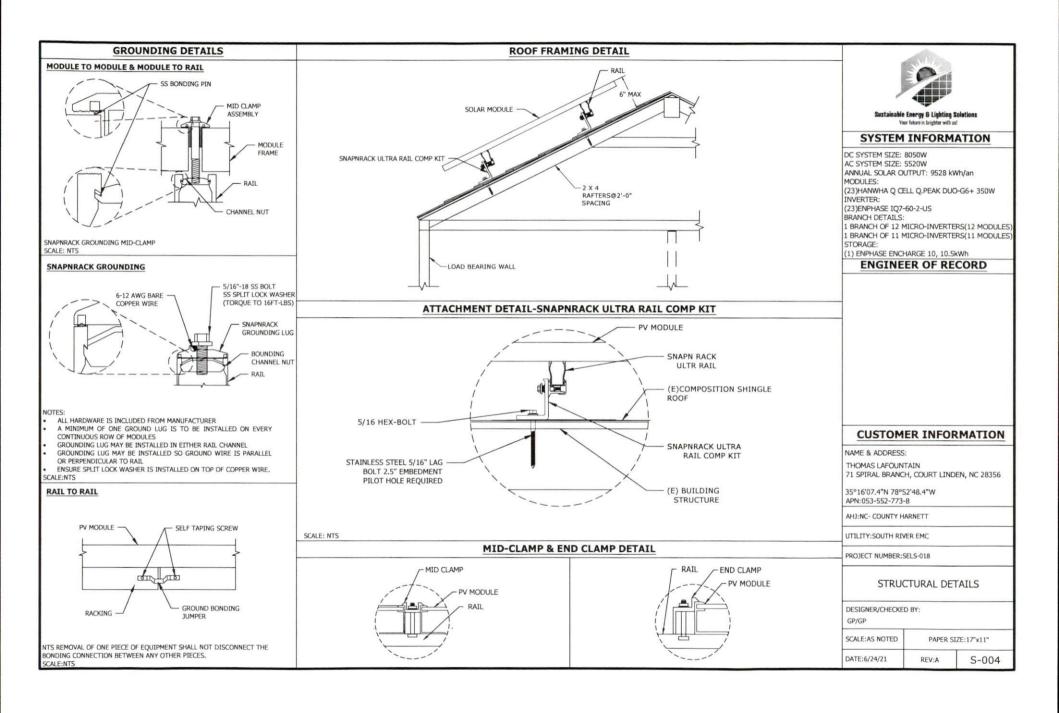
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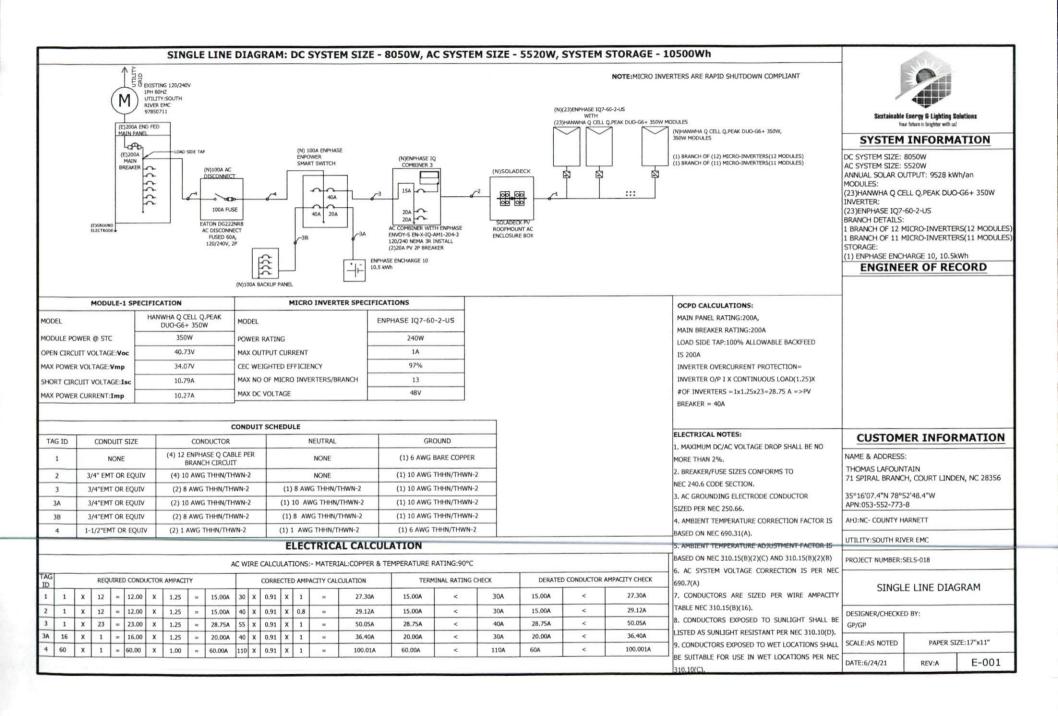
SCALE:AS NOTED PAPER SIZE:17"x11"

DATE:6/24/21 RE

G-001

DEAD LO	AD CALC	ULATION	NS							SITE INFOR	MATION							Alb.	
вом	QUANTITY	LBS/UNIT	TOTAL WEIGHT (LBS)	SR.NO	AZIMUTH	PITCH	NO. OF MODULES	ARRAY AREA (SQ. FT.)	ROOF TYPE	ATTACHMENT	ROOF EXPOSURE	FRAME TYPE	FRAME SIZE	FRAME SPACING	MAX RAIL SPAN	OVER HANG		0	
MODULES	23	43.88	1009.24			-	provident reserving occur		-	-							1 /		
MID-CLAMP	28	0.050	1.40	MP-01	109°	30°	18	347.6	COMPOSITION SHINGLE	SNAPNRACK ULTRA RAIL COMP KIT	ATTIC	RAFTERS	2 X 4	2'-0"	4'-0"	2'-0"		Affile.	V-10-1
END-CLAMP	16	0.050	0.80	_		-		(2000)	COMPOSITION	SNAPNRACK ULTRA	50775075	THE STATE AND DESCRIPTION OF THE STATE OF TH		0400000	compan			Energy & Lighting So or future is brighter with ast	
RAIL LENGTH	172	0.680	116.96	MP-02	109°	30°	5	96.6	SHINGLE	RAIL COMP KIT	ATTIC	RAFTERS	2 X 4	2'-0"	4'-0"	2'-0"	SYSTEM	INFORMA	ATION
SPLICE BAR	8	0.360	2.88														DC SYSTEM SIZE:		
SNAPNRACK ULTRA RAIL COMP KIT	44	1.8	79.20														AC SYSTEM SIZE: ANNUAL SOLAR O	5520W	h/an
MICRO-INVERTER	23	2.38	54.74														MODULES: (23)HANWHA Q C	ELL O.PEAK DUO	-G6+ 350W
TOTAL WEIGHT OF THE S	YSTEM (LBS)		1265.22														INVERTER:		00 / 000 //
TOTAL ARRAY AREA ON T	HE ROOF (SQ	). FT.)	444.20	1													(23)ENPHASE IQ7 BRANCH DETAILS		
WEIGHT PER SQ. FT.(LBS	)		2.85														1 BRANCH OF 12	ICRO-INVERTE	S(12 MODULES)
WEIGHT PER PENETRATION	ON (LBS)		28.76		ľ										7		1 BRANCH OF 11 STORAGE:	MICRO-INVERTE	(S(11 MODULES)
				1			0		$\circ$								(1) ENPHASE ENC		
UPLIF	CALCUI	ATIONS															ENGINE	ER OF RE	CORD
UPLIFT		13326.1	LBS																
PULL OUT STRENGTH		27060	LBS																
POINT LOADING	-115	23	LBS																
мс	DULES D	ATA											(	)					
HANWHA Q	CELL Q.PEAK	DUO-G6+ 350V	V	1						0									
MODULE DIMS	6	68.5"x40.6"x1.2	26"	1	1				77777										
LAG SCREWS	5/16" X 3	.5":2.5"MIN E	MBEDMENT	1										77777	1 +				
FI	RE SETB	ACK		1			• •	1:							m in				
MINIMUM FIRE ACCESS P	ATHWAYS PE	R NCFC 2018															CHETON	ER INFOR	MATTON
RIDGE TO ARRAY: 3'-0" EAVE TO ARRAY: 3'-0"					1		• •	-			+++	+ + + +		+			CUSTOM	EK INFOR	MATION
HIP/VALLEY W/ ADJACEN			0#					-					•	•	3		NAME & ADDRESS		
NOTE: INSTALLER TO VE							• •	4							}		THOMAS LAFOUN 71 SPIRAL BRANC		EN, NC 28356
SPANS, AND NOTIFY ANY	DISCREPANO	IES BEFORE	PROCEEDING.		Į						'						35°16'07.4"N 78° APN:053-552-773		
							ARRAY MP-	02		/	//				3		AHJ:NC- COUNTY H	ARNETT	
							ARRAT MP	VZ —		-//	/		a at	31			UTILITY:SOUTH RI	VER EMC	
									ARRAY M	//			× 4' -	1 1 3'	1		PROJECT NUMBER:	SELS-018	
										FTERS _							MOU	NTING DETA	AILS
																	DESIGNER/CHECKI GP/GP	D BY:	
				В	MOUN	TING F	ETAILS								V.	1	SCALE:AS NOTED	PAPER SI	ZE:17"×11"
				S-003	-	The spectrostic or									,		DATE:6/24/21	REV:A	S-003
				3-003	SCALE	: 1/8"=	1 -0"										DATE:0/24/21	KEV.A	3-003





### WARNING PLACARDS

### WARNING

ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

LABEL LOCATION
DC DISCONNECT, INVERTER
[PER CODE: NEC 690.41)]
[To be used when inverter is ungrounded]

## WARNING

DO NOT TOUCH TERMINALS

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

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION
[PER CODE: NEC 690.13(B)]

### WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE
ENERGIZED IN THE OPEN POSITION

LABEL LOCATION
AC DISCONNECT, POINT OF INTERCONNECTION
[PER CODE: NEC 690.13(B)]

WARNING-Electric Shock Hazard No User Serviceable Parts inside Contact authorized service provide for assistance

LABEL LOCATION
INVERTER, JUNCTION BOXES(ROOF),
AC DISCONNECT
[PER CODE: NEC 690.13]

WARNING:PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION
CONDUIT, COMBINER BOX
[PER CODE: NEC690.31(G)(3)]

### WARNING

TRI POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM THIRD POWER SOURCE IS BATTERY

POINT OF INTERCONNECTION [PER CODE: NEC705.12(D)(4)]

### CAUTION

SOLAR PV SYSTEM AND BATTERY BACKUP INSTALLED. WHEN POWER DISCONNECT, SOLAR PANELS AND BATTERY POWER WIRING MAY REMAIN ENERGIZED

LABEL LOCATION
POINT OF INTERCONNECTION

PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH

PATED AC OPERATING CUPPENT 27.83 AMPS AC AC NOMINAL OPERATING VOLTAGE 240 VAC

LABEL LOCATION

AC DISCONNECT, POINT OF INTERCONNECTION
[PER CODE: NEC 690.54]

### WARNING

INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVER-CURRENT DEVICE

POINT OF INTERCONNECTION
(PER CODE: NEC 705.12(2)(b)
[No Required if Pand hoard in rated not less than sum of ampere ratio

## **CAUTION: SOLAR CIRCUIT**

LABEL LOCATION

MARKINGS PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES AND CABLE ASSEMBLES AT LEAST EVERY 10 FT, AT TURNS AND ABOVE/BELOW PENETRATIONS AND ALL COMBINER/JUNCTION BOXES. (PER CODE: 1FCGOS 11.1 COMBINER/JUNCTION BOXES.

### SOLAR DISCONNECT

LABEL LOCATION

DISCONNECT, POINT OF INTERCONNECTION

# CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

LABEL LOCATION

WEATHER RESISTANT MATERIAL, DURABLE ADHESDIVE, UL969 AS STANDARD TO WEATHER RATING (UL LISTING OF MARKINGS NOT REQUIRED), MIN ½" LETTER HEIGHT ARIAL OR SIMILAR FONT NON-BOLD, PLACED WITHIN THE MAIN SERVICE DISCONNECT, PLACED ON THE OUTSIDE OF THE COVER WHEN DISCONNECT IS OPERATED WITH THE SERVICE PANEL CLOSED, (PWER CODE: NEC690.15, 690.13(8))

RAPID SHUTDOWN SWITCH FOR SOLAR SYSTEM

LABEL LOCATION
INVERTER, POINT OF
INTERCONNECTION
[PER CODE: NEC 690.56(C)(3)]

# 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



POINT OF INTERCONNECTION
(PER CODE: NEC690.56(C))

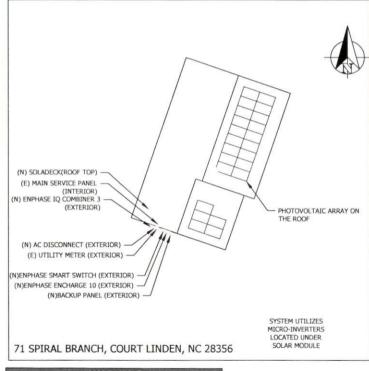
ALL PLACARDS SHALL BE OF WEATHER PROOF CONSTRUCTION, BACKGROUND ON ALL PLACARDS SHALL BE RED WITH WHITE LETTERING U.O.N.

PLACARD SHALL BE MOUNTED DIRECTLY ON THE EXISTING UTILITY ELECTRICAL SERVICE.FASTENERS APPROVED BY THE LOCAL JURISDICTION

NOTE: ALL SIGNAGE CANNOT BE HAND WRITTEN NEC 110.21

# WARNING /!\

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN



### WARNING

ARC FLASH HAZARD APPROPRIATE REQUIRED DO NOT OPERATE CONTROLS OR OPEN COVER WITHOUT APPROPRIATE PERSONAL PROTECTION EQUIPMENT.FAILURE TO COMPLY MAY RESULT IN INJURY OR DEATH, REFER TO NEPA 70A FOR MINIMUM PER REQUIREMENTS.

POINT OF INTERCONNECTION



Sustainable Energy & Lighting Solutions Your future is brighter with us!

### SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W

ANNUAL SOLAR OUTPUT: 9528 kWh/an

(23)HANWHA Q CELL Q.PEAK DUO-G6+ 350W INVERTER:

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### **ENGINEER OF RECORD**

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UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: SELS-018

### WARNING PLACARDS

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GP/GP

SCALE:AS NOTED PAPER SIZE:17"x11"

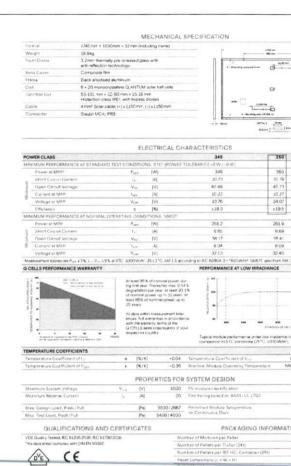
DATE:6/24/21 REV:A

E-002



# Frame

QCELLS



Temparisture Coefficient of (_	0	[%/K]	+0.04	Temperature Coefficient of Vivi	8	[%/K]	-0.27
Temperature Coefficient of Pore	Y	[%/K]	-0.36	Morninal Module Operating Temperature	NMOT	[C]	43±3
		PROP	ERTIES FOR	SYSTEM DESIGN			
Maximum äystem Voltage	V.,	[V]	1000	PV module classification			Class I
Meximum Revense Current	fa.	A	20	Fire Raing balled on ANSI/UL 1703			C/TYPE 2
Max. Design Load, Post / Pull		Pai	360072667	Permitted Module Temperature	-	-40	'C - +85 °C
Max. Test Load, Pash / Full		Pu	5400/4000	on Continuous Dury			

MECHANICAL SPECIFICATION

ELECTRICAL CHARACTERISTICS

±19.3

PERFORMANCE AT LOW IRRADIANCE

Number of Modules per Pallet Number of Pallets per Traller (24t)

Nets: Installation instructions must be followed. See the installation and operating manual or contect our technical service department for further information on approved installation

Henwha Q CELLS GmbH 

QCELLS Engineered in Germany



Sustainable Energy & Lighting Solutions Your future is brighter with us!

### SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W ANNUAL SOLAR OUTPUT: 9528 kWh/an MODULES: (23)HANWHA Q CELL Q.PEAK DUO-G6+ 350W

INVERTER:

(23)ENPHASE IQ7-60-2-US BRANCH DETAILS:

10.84

34.38

+198

±19.5

840

1 BRANCH OF 12 MICRO-INVERTERS(12 MODULES) 1 BRANCH OF 11 MICRO-INVERTERS(11 MODULES)

(1) ENPHASE ENCHARGE 10, 10.5kWh

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AHJ:NC- COUNTY HARNETT

UTILITY:SOUTH RIVER EMC

PROJECT NUMBER: SELS-018

### MOODULE SPECSHEET

DESIGNER/CHECKED BY:

GP/GP

PAPER SIZE:17"x11" SCALE: AS NOTED

DATE:6/24/21

SS-001

Enphase Microinverters

# Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready Enphase IQ 7 Micro™ and Enphase IQ 7+ Micro™ dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate with the Enphase IQ Envoy\*, Enphase IQ Battery\*, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing. enabling Enphase to provide an industry-leading warranty of up to 25 years.



### Easy to Install

- · Lightweight and simple
- · Faster installation with improved, lighter (wo-wire cabling
- · Built-in rapid shutdown compliant (NEC 2014 & 2017)

# Productive and Reliable

- Optimized for high powered 60-cell/120 half-cell and 72-cell/144 half-cell\* modules
- More than a million hours of testing · Class II double-insulated enclosure
- · Ul listed

### Smart Grid Ready

- · Complies with advanced grid support, voltage and
- frequency ride-through requirements Remotely updates to respond to changing
- grid requirements
- · Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)
- \* The IQ 7+ Micro is required to support 72 cell/144 half cell modules.





### Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	1Q7-60-2-US		IQ7PLUS-72-2	-us	
Commonly used module pairings*	235 W - 350 W		235 W - 440 W +		
Module compatibility	60-cell/120 hall only	f-cell PV modules	60-cell/120 half-cell and 72- cell/144 half-cell PV modules		
Maximum input DC voltage	48 V		60 V		
Peak power tracking voltage	27 V - 37 V		27 V - 45 V		
Operating range	16 V - 48 V		16 V - 60 V		
Min/Max start voltage	22 V / 48 V		22 V / 60 V		
Max DC short circuit current (module isc)	15 A		15 A		
Overvoltage class DC port	11		11		
DC port backfeed current	OA		0 A		
PV array configuration		ed array. No additio tion requires max 20			
OUTPUT DATA (AC)	IQ 7 Microinv	erter	IQ 7+ Microin	overter	
Peak output power	260 VA	SWEWER	295 VA		
Maximum continuous output power	240 VA		290 VA		
Nominal (L-L) voltage/range*	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V	
Maximum continuous output current	10 A (240 V)	1.15 A (208 V)	1 21 A (240 V)	139 A (208 V)	
Nominal frequency	60 Hz	ELECTION STATE	60 Hz		
Extended frequency range	47 - 68 Hz		47 68 Hz		
AC short circuit fault current over 3 cycles	5.8 A/ms	DESCRIPTION OF THE PARTY OF THE	5.8 Arms		
Maximum units per 20 A (L-L) branch circuit <sup>a</sup>	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)	
Overvoltage class AC port	101	CONTRACTOR OF THE PARTY OF THE	MI		
AC port backfeed current	18 mA		18 mA		
Power factor setting	1.0	Medical Search	1.0		
Power factor (adjustable)	0.85 leading	0.85 lagging	0.85 leading	0.85 lagging	
EFFICIENCY	@240 V	@208 V	@240 V	@208 V	
Peak efficiency	97.6%	97.6%	97.5%	97.3%	
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %	
MECHANICAL DATA					
Ambient temperature range	-40°C to +65°C	Charles and Charles	128 1881		
Relative humidity range	4% to 100% (co	ndensing)			
Connector type	MC4 (or Amphe	enol H4 UTX with ac	ditional Q-DCC-5	adapter)	
Dimensions (HxWxD)	212 mm x 175 r	nm x 30.2 mm (with	out bracket)		
Weight	1.08 kg (2.38 lb	(a)			
Cooling	Natural convec	uon- No fans			
Approved for wet locations	Yes				
Pollution degree	PD3				
Enclosure	Class II double	insulated, corrosion	n resistant polyme	ric enclosure	
Environmental category / UV exposure rating	NEMA Type 6 /				
FEATURES					
Communication	Power Line Car	nmunication (PLC)			
Monitoring	Enlighten Mana	ger and MyEnlighte	n monitoring action	ons.	
67.8		quire installation of			

The AC and DC connectors have been evaluated and approved by UI. for use as the load-break

disconnect requirectory - to-the-CA Pulse 21 (U. 1741-SA) UL 62109-1, UL1741-(SEE1547, FCC Part 15 Class B, ICES-0003 Class B, CANVCSA-G22 - 20 - 1071-01 This product is UL. Listed as PV Rapid Shu; Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 eection 69012 and 6227 12215 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.

- No enforced DC/AC ratio. See the compatibility calculator at https://enphase.cum/en-us/support/module-compatibility.
   Numeral voltage range can be extended beyond normal if required by the usidity.
   Limbs may eary Refer to focial requirements to define the number of microstreathers per branch in your area.

### To learn more about Enphase offerings, visit enphase.com

Disconnecting means

Compliance

uh 1000 Emphase Energy. All rights neserved. Emphase the Emphase Gop. Emphase GD 7. Emphase 10. 74. Emphase 10 Disters.
Established Emphase 10 Emphase 10

disconnect required by NEC 690.



# SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W

ANNUAL SOLAR OUTPUT: 9528 kWh/an MODULES:

(23)HANWHA Q CELL Q.PEAK DUO-G6+ 350W INVERTER:

(23)ENPHASE IQ7-60-2-US BRANCH DETAILS:

1 BRANCH OF 12 MICRO-INVERTERS(12 MODULES) 1 BRANCH OF 11 MICRO-INVERTERS(11 MODULES) STORAGE:

(1) ENPHASE ENCHARGE 10, 10.5kWh

### ENGINEER OF RECORD

### CUSTOMER INFORMATION

NAME & ADDRESS:

THOMAS LAFOUNTAIN 71 SPIRAL BRANCH, COURT LINDEN, NC 28356

35°16'07.4"N 78°52'48.4"W APN:053-552-773-8

AHJ:NC- COUNTY HARNETT

UTILITY: SOUTH RIVER EMC

PROJECT NUMBER: SELS-018

### INVERTER SPECSHEET

DESIGNER/CHECKED BY:

GP/GP

⊕ ENPHASE.

SCALE: AS NOTED PAPER SIZE:17"x11"

DATE:6/24/21

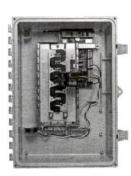
SS-002

To learn more about Enphase offerings, visit enphase.com

Enphase Networking

# Enphase IQ Combiner 3 (X-IQ-AM1-240-3)

The Enphase IQ Combiner 3™ with Enphase IQ Envoy™ consolidates interconnection equipment into a single enclosure and streamlines PV and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly



- Includes IQ Envey for communication and control
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge
- · Provides production metering and optional consumption monitoring

- · Reduced size from previous combiner
- · Centered mounting brackets support single stud mounting
- · Supports back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80 A total PV or storage branch circuits

### Reliable

- · Durable NRTL-certified NEMA type
- · Five-year limited warranty





### Enphase IQ Combiner 3

MODEL NUMBER	
IQ Combiner 3 X-IQ-AMT-240-3	IQ Combiner 3 with Enphase IQ Envoy* printed circuit board for integrated revenue grade PV production metering (ANSI C12-20 +/- 0.5%) and optional* consumption monitoring (+/- 2.5%)
ACCESSORIES and REPLACEMENT PARTS (no	t included, order separately)
Enphase Mobile Connect* CELLMODEM-03 (4G/12-year data plan) CELLMODEM-01 (3G/5-year data plan) CELLMODEM-M1 (4G based LTE-M/5-year data plan) CREAMSEM Monitoring* CT CT-200-SPUT C1-200-SPUT Consumption repolaring is required for Enabase Storage Systems	Plug and play industrial grade cellular modern with data plan for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.)  Split core current transformers enable whole home consumption metering (+/-2.5%).
Wireless USB adapter COMMS-KIT-01	Installed at the IQ Envoy. For communications with Enphase Enchange" storage and Enphase Enpower' armar Environment of English and Enphase (Combiner and allows redundant wireless communication with Enchange and Enpower.
Circuit Breakers 8RK-10A-2:240 8RK-15A-2:240 8RK-20A-2P-240	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215 Circuit breaker, 2 pole, 20A, Eaton BR220
EPLC-01	Power line carrier (communication bridge pair), quantity - one pair
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 3 (required for EPLC-01)
XA-ENV-PCBA-3	Replacement ID Envoy printed circuit board (PCB) for Combiner 3
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max continuous current rating (output to grid)	65 A
Max. fuse/circuit rating (output)	90 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max continuous current rating (input from PV)	64A
Max total branch circuit breaker rating (input)	80A of distributed generation / 90A with IQ Envoy breaker included
Production Metering CT	200 A solid core pre-installed and wired to IQ Envoy
MECHANICAL DATA	
Dimensions (WxHxD)	49.5 x 37.5 x 16.8 cm (19.5" x 14.75" x 6.63"). Height is 21.06" (53.5 cm with mounting brackets
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	20 A to 50 A breaker inputs    14 to 4 AWC copper conductors     60 A breaker branch input. 4 to 1/0 AWG copper conductors     Whin lug combined output: 10 to 2/0 AWG copper conductors     Neutral and ground: 14 to 1/0 copper conductors     Neutral and ground: 14 to 1/0 copper conductors     Aways follow local code requirements for conductors sizing.
Altitude	To 2009 meters (6,560 feet)

Optional, 802 3, Cat5E (or Cat 6) UTP Ethernet cable (not included)

UL 1741, CAN/CSA C22.2 No. 1071, 47 CFR, Part 15, Class 8, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production) UL 60601-1/CANCSA 22 2 No. 61010-1

Optional, CELLMODEM-01 (3G) or CELLMODEM-03 (4G) or CELLMODEM-M1 (4G based LTE-M)

To learn more about Enphase offerings, visit enphase.com

Integrated Wi-Fi

COMPLIANCE

Compliance, Combiner

Compliance, IQ Envoy

Cellular

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Sustainable Energy & Lighting Solutions Your future is brighter with us!

### SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W

ANNUAL SOLAR OUTPUT: 9528 kWh/an MODULES:

(23)HANWHA Q CELL Q.PEAK DUO-G6+ 350W INVERTER:

(23)ENPHASE IQ7-60-2-US BRANCH DETAILS:

1 BRANCH OF 12 MICRO-INVERTERS(12 MODULES) 1 BRANCH OF 11 MICRO-INVERTERS(11 MODULES)

(1) ENPHASE ENCHARGE 10, 10.5kWh

### **ENGINEER OF RECORD**

### **CUSTOMER INFORMATION**

NAME & ADDRESS:

THOMAS LAFOUNTAIN 71 SPIRAL BRANCH, COURT LINDEN, NC 28356

35°16'07.4"N 78°52'48.4"W APN:053-552-773-8

AHJ:NC- COUNTY HARNETT

LITTLITY-SOUTH RIVER EMC

PROJECT NUMBER:SELS-018

COMBINER SPEC SHEET

DESIGNER/CHECKED BY:

PAPER SIZE:17"x11" SCALE: AS NOTED

DATE:6/24/21 SS-003



UR-40 **UR-60** 

# **Ultra Rail**





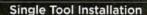
# The Ultimate Value in Rooftop Solar



Industry leading Wire **Management Solutions** 



Mounts available for all roof types





All SnapNrack Module Clamps & Accessories are compatible with both rail profiles

# Start Installing Ultra Rail Today

RESOURCES DESIGN WHERE TO BUY snaphrack.com/resources snaphrack.com/configurator snaphrack.com/where-to-buy

# SnapNrack Ultra Rail System

A sleek, straightforward rail solution for mounting solar modules on all roof types. Ultra Rail features two rail profiles; UR-40 is a lightweight rail profile that is suitable for most geographic regions and maintains all the great features of SnapNrack rail, while UR-60 is a heavier duty rail profile that provides a larger rail channel and increased span capabilities. Both are compatible with all existing mounts, module clamps, and accessories for ease of install.

### The Entire System is a Snap to Install

- · New Ultra Rail Mounts include snap-in brackets for attaching rail
- . Compatible with all the SnapNrack Mid Clamps and End Clamps customers love
- Universal End Clamps and snap-in End Caps provide a clean look to the array edge





### Unparalleled Wire Management

- · Open rail channel provides room for running wires resulting in a long-lasting quality install
- Industry best wire management offering includes Junction Boxes, Universal Wire Clamps, MLPE Attachment Kits, and Conduit
- System is fully bonded and listed to UL 2703 Standard

### Heavy Duty UR-60 Rail

- · UR-60 rail profile provides increased span capabilities for high wind speeds and snow
- · Taller, stronger rail profile includes profile specific rail splice and end cap
- · All existing mounts, module clamps, and accessories are retained for the same great install experience



# Quality. Innovative. Superior.

SnapNrack Solar Mounting Solutions are engineered to optimize material use and labor resources and improve overall installation quality and safety.

877-732-2860 www.snapnrack.com contact@snapnrack.com

### SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W

ANNUAL SOLAR OUTPUT: 9528 kWh/an MODULES

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1 BRANCH OF 12 MICRO-INVERTERS(12 MODULES) BRANCH OF 11 MICRO-INVERTERS(11 MODULES)

1) ENPHASE ENCHARGE 10, 10,5kWh

### **ENGINEER OF RECORD**

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AHJ:NC- COUNTY HARNETT

UTILITY:SOUTH RIVER EMC

PROJECT NUMBER: SELS-018

### RACKING SPECSHEET

DESIGNER/CHECKED BY: GP/GP

SCALE: AS NOTED PAPER SIZE:17"x11"

DATE:6/24/21

SS-004

Enphase Ensemble energy management system

# Enphase Enpower

The Enphase Enpower" smart switch connects the home to grid power, the Encharge storage system. and solar PV. It provides microgrid interconnection device (MID) functionality by automatically detecting and seamlessly transitioning the home energy system from grid power to backup power in the event of a grid failure. It consolidates interconnection equipment into a single enclosure and streamlines grid independent capabilities of PV and storage installations by providing a consistent, pre-wired solution for residential applications.



### Reliable

- Durable NEMA type 3R enclosure
- . Ten-year limited warranty

- · Controls safe connectivity to the grid
- · Automatically detects grid outages
- · Provides seamless transition to backup

### Simple

- . Connects to the load or service equipment! side of - Centered mounting brackets support single stud
- Supports conduit entry from the bottom, bottom left
- side, and bottom right side · Supports whole home and partial home backup and
- · Up to 200A main breaker support

subpanel backup

- · Includes neutral-forming transformer for split phase

1. Enpower is not suitable for use as service equipment in Canada

To learn more about Enphase offerings, visit enphase.com



### **Enphase Enpower**

MODEL NUMBER	
EP250G161-M240U590	Enghase Engines ament writts with neutral forming bandtimer (NIT), Mornand Intercornect Derice (NID), brosters, and across. Streamines gric independent capabilities of PV and storage installations.
ACCESSORIES and REPLACEMENT PART	rs
XA-E3-PCRA-ENS	Risplacement Engower controller printed circuit board
EP200G-NA-HD-20GA	Eaten type SP elitable breaker hold down sorew kin 899404.125
EP200G+INGL-R1	Enpower installation handle kit (order separately)
Gircuit breakers (as needed) 2. 5	Net included, must order preparately.
BRK-10/14-2F-0.20V	- Main breeker, 2 pole, 1004, 754 A1C, CSR2 100
BRX 125A-2P-240V	- Main Innober, 2 pole, 125A, 25kAIC C3R2135N
BRK-150A-3P-240V	<ul> <li>Main breaker, 2 pole, 150A, 25kAIC, CBR2150N</li> </ul>
BRIL 179A 0P-240V	- Main breaker, 2 pene, 1754, 25kAIC, C092179N
DRK-200A 2F-240V	- Main brooker, 3 pete, 200A, 25KARC, CORSSION
BPK 20A-2F-240V-B	<ul> <li>Choult treaker, 2 pote, 20A, 18k ALC, 8H 220B</li> </ul>
BRK-3QA-2F-246Y	<ul> <li>Circuit breaker, 2 pole; 3GA, 108A/C; 832308</li> </ul>
BRK 40A 2P 740Y	- Circum breaker, 2 pole, 4GA, 10kAIC, 6/12 4GB
BRK-60A-2P-240Y	- Circuit breaker 7 pole, 60A, 196AIC, 992A9
BRK 40A-2P-240V	- Circuit trivaker 2 pule, 60A, 10AAIC, 84240

ELECTRICAL SPECIFICATIONS	
Assembly rating	Continuous operation at 100% of its rating
No.nical vottage / range (L.L.)	240 VAC / 108 - 210 VAC
Yultage measure next accuracy	#7% V nominal (#1.2V L-fr and #2.4V L-L)
Ausiliary contact fee load costrol and aspess PV coerci	24X IA
Nominal frequency a range	50Hz / 15 - 42 Hz
Frequency minasurement accuracy	+0.1 Hz
Maximum continuous cornell rating	1604
Meumers lepat overcorrent protection device	20GA
Maximum output avercurrent proteotion device	200A
Maximum overcorrent protection device rating for storage branch circuit.	#DA
Measurem overcurrent protection device rating for PY consider through carcuit.	
Neutral Forming Transignmer (NFT)	Steaker reting (ser-orstafed) 40A between L1 and Neutrat 40A serveen L2 and Neutral     Continuous retind private 35/39A     Assumers continuous sociations or server, 30A (\$120V).

MECHANICAL DATA	
Dimensions (Walth-D)	50cm x 91.6cm x 94.6cm (19.7 in x 36 in x 9.7 in)
Weight	(D 5 kg (65 first)
Ambient fempareisse range	47°C10+50°G(40°E1272°F)
Cooling	Natural opewection, plays hear shield
Inclosure environmental rating	Outfloor, NEMA type 3R, polycerbonate construction
k/I tade	To 2500 minters (KS00 feet)
WIDE SIZES	

A.T tode	To 2500 millers (8200 feet)	
WIRE SIZES		
Connections  Connections  (All Layer set raised to 40C)	- Mem Sygs and Reckup load Jugs - CST breakers - EST breakers - EST considers tags, factory bigs, and gateratur bugs - Memory large factory bigs, and gateratur bugs - Memory (large fact) -	Calab 1 AWG - 300 KEANL Calab 2 AWG - 300 KEANL 6 AWG 14 AWG - 2 AWG Calab 6 AWG - 300 KEANL
Naural and ground bure	Large hater (\$416-24 UNF) Small hater (10:32 UNF)	14 AWG - 1/0 AWG 14 AWG - 5 AWG

UL 1741, IN 1741 SA, UL 1741 FCS, UL1998, UL865A\*, UL-57\*, UL 508\*, UL 508\* CSA 22.2 No. 1071, 47 CFR, Part 15, Chare B, ICES 903, AC154.

2. Comparities with 80HCRS124 regist from Altho compty with 20 LTNEC 710 TSE for back-fed circum breakers.

3. The Compared is record 22 AUCh

4. Not included, Installer must provide properly rated breaker as circum breaker last above.

5. Sections from these identified is were yield during the setting will be about and included in the UL 1741 listing.

To learn more about Enphase offerings, visit enphase.com

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### SYSTEM INFORMATION

DC SYSTEM SIZE: 8050W AC SYSTEM SIZE: 5520W

ANNUAL SOLAR OUTPUT: 9528 kWh/an MODULES: (23)HANWHA Q CELL Q.PEAK DUO-G6+ 350W INVERTER: (23)ENPHASE IQ7-60-2-US BRANCH DETAILS: 1 BRANCH OF 12 MICRO-INVERTERS(12 MODULES) 1 BRANCH OF 11 MICRO-INVERTERS(11 MODULES)

### (1) ENPHASE ENCHARGE 10, 10.5kWh **ENGINEER OF RECORD**

# **CUSTOMER INFORMATION**

NAME & ADDRESS:

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35°16'07.4"N 78°52'48.4"W APN:053-552-773-8

AH):NC- COUNTY HARNETT

UTILITY:SOUTH RIVER EMC PROJECT NUMBER: SELS-018

ENPOWER SMART SWITCH

DESIGNER/CHECKED BY:

GP/GP

SCALE: AS NOTED PAPER SIZE:17"x11"

DATE:6/24/21 SS-005 REV:A

Enphase Storage System

Enphase

Encharge 10

PRELIMINARY

The Enphase Encharge 10" battery is reliable.

smart, simple, and safe. It provides the lowest lifetime energy costs with backup capability for both new and retrofit solar customers. As an installer, you can quickly design the right system size to meet the needs of the homeowner



- · Proven high reliability IQ Series Microinverters
- · Ten-year limited warranty
- · Extensive testing
- · Passive cooling (no moving parts/fans)

### Smart

- Utility TOU optimization
- · Self consumption
- · Mobile app-based monitoring
- Grid-forming capability for backup operation

- · Fully integrated AC battery system
- · Quick and easy plug-and-play installation
- · Interconnects with standard household AC wiring

### Safe

- · Cells safety tested
- · Lithium iron phosphate (LFP) chemistry for maximum safety and longevity

**⊕** ENPHASE

Enphase Encharge 10



>70% capacity, up to 10 years or 4000 cycles

- 1. Supported in backup/off grid operations
- AC to Battery to AC

Limited Warranty<sup>a</sup>

3 Whichever occurs first. Restrictions apply.

To learn more about Enphase offerings, visit enphase.com

4.00.19 Englage Energy All lights reterved. Ordhase, the Enghane Rigo, Enchange 10, and lither trademarks or service names are the trademark of Rightse Energy Fig. Ords subject to change.

ENPHASE.



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AHJ:NC- COUNTY HARNETT

UTILITY:SOUTH RIVER EMC

PROJECT NUMBER: SELS-018

### **ENCHARGE SPECSHEET**

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