

ABBREVIATIONS

ALTERNATING CURRENT

ELECTRICAL METAL TUBING

CURRENT AT MAXIMUM POWER

SHORT-CIRCUIT CURRENT

MAIN CIRCUIT BREAKER

KILOVOLT AMPERE

MAIN LUG ONLY

NOT TO SCALE NOMINAL POWER

PHOTOVOLTAIC

SOLAR NOON

TYPICAL

VOLT

POLYVINYL CHLORIDE

STANDARD TEST CONDITIONS

VOLTAGE AT MAXIMUM POWER

OPEN-CIRCUIT VOLTAGE

EQUIPMENT GROUNDING CONDUCTOR

GROUNDING ELECTRODE CONDUCTOR

DIRECT CURRENT

GALVANIZED

GROUND

CURRENT

KILOWATT

MAXIMUM

MINIMUM

NOMINAL

AC

DC

FGC

EMT

GALV

GEC

GND

Isc

KVA

KW

MAX

MIN

MCB

MLO

MOM

NTS

PNOM

PVC

SN

STC

TYP

Voc

ENGINEER

MODEL ENERGY

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

P-1194

JOB TITLE:

CLIENT:

SYSTEM EXPORT S 2 NEW SOLAR F 12.6 kW DO 12.6 l 11.4 k

Drive 2 27526 Crest

CODE REFERENCES

2017 NATIONAL ELECTRIC CODE 2018 NORTH CAROLINA BUILDING CODE 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA FIRE CODE

SHEET INDEX

PVI.I - PROJECT INFORMATION PV2.1 - SITE INFORMATION

PV3.1 - STRUCTURAL INFORMATION PV4.1 - ELECTRICAL INFORMATION PV5.1 - EQUIPMENT LABELS

SITE CONDITIONS

ASCE 7-10 WIND SPEED - II7 MPH EXPOSURE CATEGORY - B RISK CATEGORY - II

LEGEND

DISCONNECT SWITCH FUSE

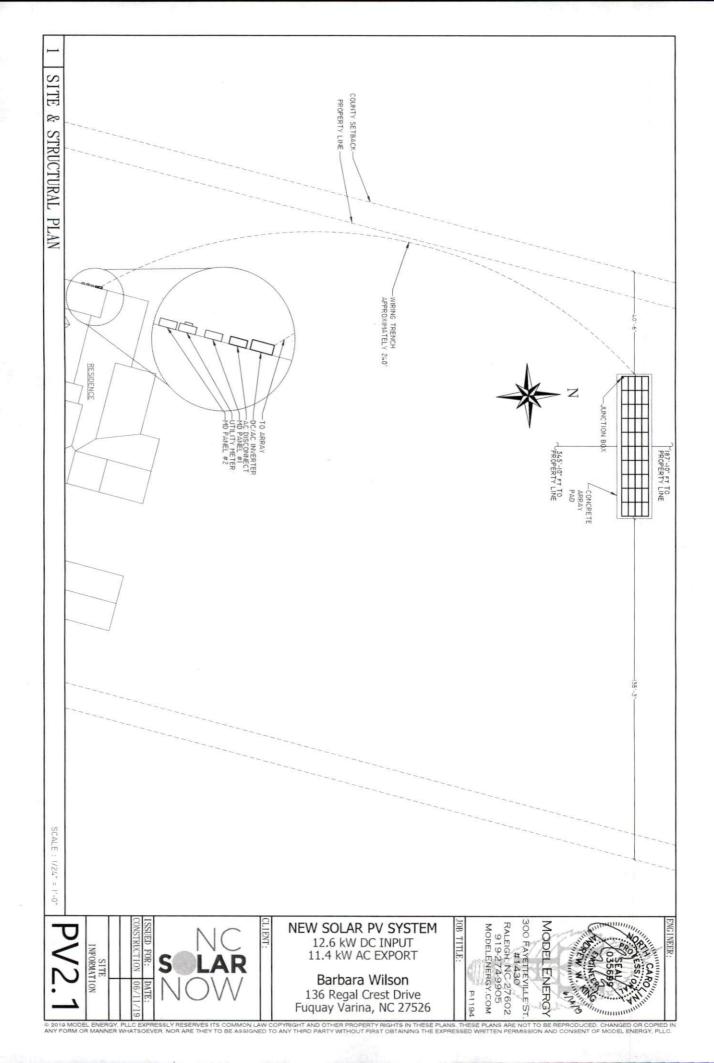
CIRCUIT BREAKER EQUIP. GROUND

ISSUED FOR: CONSTRUCTION

> PROJECT INFORMATION

CONSTRUCTION NOTES

- ALL WORK AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL, STATE, AND LOCAL CODES AND ORDINANCES
- FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, BEST PRACTICES, AND SPECIFICATIONS
- WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS
- THE PHOTOVOLTAIC SYSTEM SHALL NOT EXCEED 600 VOLTS OR 800 AMPS
- 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
- GROUNDED DO PHOTOVOLTAIC ARRAYS SHALL BE PROVIDED WITH DC GROUND-FAULT PROTECTION THAT MEETS THE REQUIREMENTS OF NEC SECTION 690.5. UNGROUNDED DC PHOTOVOLTAIC ARRAYS SHALL COMPLY WITH NEC SECTION 690.35
- 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.
- PHOTOVOLTAIC SYSTEMS SHALL BE PERMANENTLY MARKED AT VARIOUS EQUIPMENT LOCATIONS TO IDENTIFY THAT A PHOTOVOLTAIC SYSTEM IS INSTALLED AND THAT VARIOUS DANGERS ARE PRESENT.
- 10. EACH PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A PHOTOVOLTAIC SYSTEM
- 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
- 12. A PERMANENT LABEL FOR THE DIRECT-CURRENT PHOTOVOLTAIC POWER SOURCE SHALL BE PROVIDED BY THE INSTALLED AT THE DC DISCONNECT MEANS
- 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.
- 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.
- 15. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC SECTION 690.4 (C)



ROOF FASTENERS MAKE TYPE MATERIAL 7315 WEDGE ANCHOR 304 SS 3/8" X 3-3/4" MAXIMUM PULL-OUT FORCE 2,880 LBS. SAFETY FACTOR 3 DESIGN PULL-OUT FORCE 960 LBS

NOTES:

EMBED ANCHOR BETWEEN 2.5 AND 3.0 INCHES INTO THE CONCRETE

GROUN	ID MOUNTS
MAKE	UNIRACK
MODEL	L-FOOT
MATERIAL	ALUMINUM
WEIGHT	0.25 LBS.
FASTENERS	I PER MOUNT

MAKE	UNIRACK		
MODEL	SM STANDARD		
MATERIAL	ALUMINUM		
WEIGHT	1.25 LBS./SQFT		
SPACING	38 IN.		

ARRAY LOA	DING SUMMARY
DEAD LOAD:	
MOUNTING PAD	52.0 LBS./SQFT.
PV ARRAY	2.4 LBS./SQFT.
TOTAL	54.4 LBS./SQFT.
WIND LOAD:	
UPLIFT	-33.8 LBS./SQFT
DOWNWARD	21.3 LBS./SQFT.
FASTENER LOAD:	
UPLIFT	-409 LBS.
DOWNWARD	258 LBS.

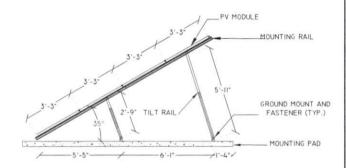
P	V MODULES
MAKE	Q CELL
MODEL	Q.PEAK DUO-G5 315
WIDTH	39.4"
LENGTH	66.3"
THICKNESS	1.26*
WEIGHT	40 LBS

ARRAY SU	MMARY
# MODULES	40
# MOUNTS	60
RAIL LENGTH	271 FT
ARRAY AREA	727 SQFT.
ARRAY WEIGHT	1990 LBS.
AZIMUTH @ SN	182°
TILT ANGLE	35°

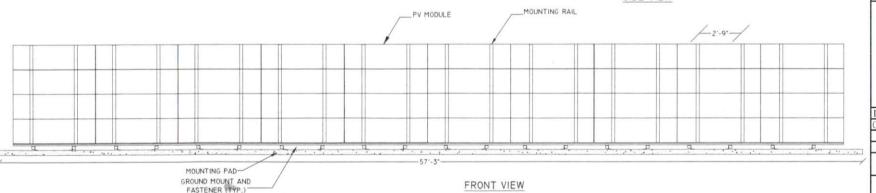
STATEMENT OF STRUCTURAL COMPLIANCE

THE EXISTING ROOF STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE ADDITIONAL LOADS OF THE PURPOSED 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 THESE DRAWINGS.





SIDE VIEW



GROUND MOUNT ARRAY

MATERIAL

LENGTH WIDTH DEPTH

STRENGTH

WEIGHT

POURED PAD CONCRETE 57'-3"

14'

2.000 PSI

150 LBS./CU.FT. 40,000 LBS.

PV SYSTEM ELECTRICAL WIRING SCHEMATIC

SCALE : NTS

MODEL ENERGY 300 FAYETTEVILLE ST #1430 RALEIGH, NC 27602 919-274-9905

P-1194

MODELENERGY.COM

JOB TITLE:

ENGINEER

NEW SOLAR PV SYSTEM 12.6 kW DC INPUT 11.4 kW AC EXPORT

Barbara Wilson 136 Regal Crest Drive Fuquay Varina, NC 27526

CLIENT:

ISSUED FOR: CONSTRUCTION

> STRUCTURAL INFORMATION

PV.	MODULES
MAKE	HANWHA Q-CELL
MODEL	Q.PEAK DUO BLK-G5 315
TECHNOLOGY	MONO-CRYST.
NOM. POWER (PNOM)	315 WATTS
NOM. VOLT. (VMP)	33.46 VOLTS
O.C. VOLT. (Voc)	40.29 VOLTS
MAX. SYS. VOLT.	1000 V (UL)
TEMP. COEF. (VTC)	-0.28 %/°C
NOM. CURR. (IMP)	9.41 AMPS
S.C. CURR. (Isc)	9.89 AMPS
MAX. SERIES FUSE	20 AMPS

MAKE	SOLAREDGE
MODEL	P320
DC INPUT:	
NOM. POWER	320 WATTS
VOLT. RANGE	8-48
MAX. CURR.	II.0 AMPS
DC OUTPUT	
NOM. POWER	320 WATTS
MAX. VOLT.	60 VOLTS
MAX. CURR.	15 AMPS
MIN. STRING	8 OPTIMIZERS
MAX. STRING	25 OPTIMIZERS
MAX. POWER	5700 WATTS

JUNCT	TON BOX		
MAKE	SOLADECK		
MODEL	0783-3R		
PRO. RATING	NEMA 3R		
VOLT. RATING	600 VOLTS		
AMP RATING	120 AMPS		
UL LISTING	UL 50		

N.					C	ONDU	CTOR S	CHEDULE					
2010	CUR	RENT CA	RRYING CO.	NDUCTORS		GROUND	ING CONDU	CTORS		CONT	DUIT/RACEW.	17	NOTES
TAG	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	LOCATION	NOTES
CI	4	10 AWG	COPPER	PV WIRE	1	6 AWG	COPPER	PV WIRE	-	-	-	FREE AIR	1
CZ	4	10 AWG	COPPER	THWN-2	1	10 AWG	COPPER	THWN-2	- 1	3/4"	PVC	BURIED	2.4
C3	3	6 AWG	COPPER	THWN	1	10 AWG	COPPER	THWN	1	3/4"	EMT	EXT	2.4
XC	-	-	-		-	-	-		-	-	-	-	3

NOTES:

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- 2. CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED.
- 3. EXISTING CONDUCTORS, FIELD VERIFY
- 4. EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR

DC/AC .	INVERTER				
MAKE	SOLAREDGE				
MODEL	SEII400H-US				
TECHNOLOGY	TRANS-LESS				
DC INPUT:					
MAX. POWER	17650 WATTS				
MAX. VOLT	480 VOLTS				
NOM. VOLT.	380 VOLTS				
MAX. CURRENT	30.5 AMPS				
MAX. SCC	45 AMPS				
STRINGS INPUTS	3 STRINGS				
AC OUTPUT:					
RATED POWER	H400 WATTS				
MAX. POWER	11400 WATTS				
NOM. VOLT.	240 VOLTS				
MAX. CURR.	47.5 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	15 AMPS				
PROTECT. RATING	NEMA 4X				

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
- INSTALL ADJACENT TO METER
 DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT ALL TIMES

	Tour venio			
MAKE	SIEMENS			
MODEL	W0816L1200CT			
ENCL. RATING	NEMA 3R			
VOLT. RATING	240 VOLTS			
BUS RATING	200 AMPS			
UL LIST. (Y/N)	YES			
MAIN BREAKER (Y/N)	YES			
BREAKER RATING	150 AMPS			

. BACK-FEED SOLAR OUTPUT VIA 60A BREAKER AT THE OPPOSITE END OF THE BUS BAR FROM MAIN BREAKER



NOTES:

Barbara Wilson 136 Regal Crest Drive Fuquay Varina, NC 27526 NEW SOLAR PV SYSTEM 12.6 kW DC INPUT 11.4 kW AC EXPORT

JOB TITLE:

ENGINEER:

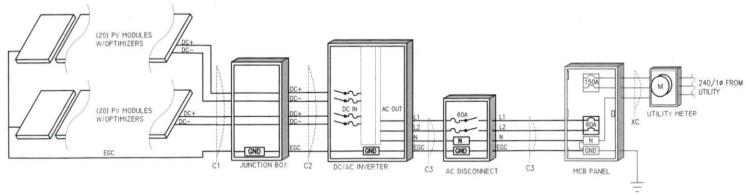
MODEL ENERGY

P-1194

ISSUED FOR: DATE: CONSTRUCTION 06/11/19

CLIENT:

ELECTRICAL INFORMATION



! WARNING

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.

! WARNING

POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

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

! WARNING

DUAL POWER SUPPLY

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

NEC 705.12 (B)(3) PLACE ON ALL EOUIPMENT THAT IS SUPPLIED BY BOTH POWER SOURCES

DIRECT CURRENT PHOTOVOLTAIC POWER SOURCE

MAXIMUM VOLTAGE 600 VDC MAX CIRCUIT CURRENT 30.0 AMPS

NEC 690.53 PLACE ON ALL DC DISCONNECTING MEANS

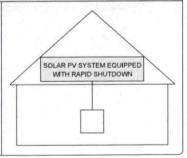
RAPID SHUTDOWN **SWITCH FOR** SOLAR PV SYSTEM

NEC 690.56 (C)(3)

PLACE ON RAPID SHUTDOWN SWITCH OR EQUIPMENT WITH INTEGRATED RAPID SHUTDOWN *REFLECTIVE*

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

PHOTOVOLTAIC POWER SOURCE

OPERATING AC VOLTAGE 240

MAXIMUM OPERATING AC OUTPUT CURRENT

NEC 690.54 PLACE ON INTERCONNECTION DISCONNECTING MEANS

WARNING: PHOTOVOLTAIC **POWER SOURCE**

NEC 690.31 (G)(3)&(4) PLACE ON ALL JUNCTION BOXES EXPOSED RACEWAYS EVERY 10' AND 1' FROM BENDS AND PENATRATIONS. ADJACENT TO THE MAIN SERVICE DISCONNECT *REFLECTIVE*

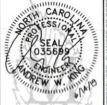
PV SYSTEM DISCONNECT

NEC 690.13 (B) PLACE ON PV SYSTEM DISCONNECTING MEANS

EQUIPMENT LABEL NOTES

- LABELS SHOWN ARE THEIR ACTUAL REQUIRED SIZE.
- LABEL MATERIAL SHALL BE SUITABLE FOR HE EQUIPMENT ENVIRONMENT.
- CONDUIT SHALL BE MARKED WITH REQUIRED LABEL EVERY 10 FEET.

ENGINEER



#1430 RALEIGH, NC 27602 919-274-9905

MODELENERGY.COM

JOB TITLE:

SYSTEM

CLIENT:

EQUIPMENT LABELS



The new Q.PEAK DUO BLK-G5 solar module from Q CELLS impresses with its outstanding visual appearance and particularly high performance on a small surface thanks to the innovative Q.ANTUM DUO Technology, Q.ANTUM's world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a sixbusbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.



Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty2.



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

THE IDEAL SOLUTION FOR:













ID. 40032587

- 1 APT test conditions according to IEC/TS 62804-1:2015. method B (-1500V, 168h)
- ² See data sheet on rear for further information.



1685 mm × 1000 mm × 32 mm (including frame)

Weight 18.7 kg

Cable

 $3.2\,\mathrm{mm}$ thermally pre-stressed glass with Front Cover

anti-reflection technology

Back Cover Composite film

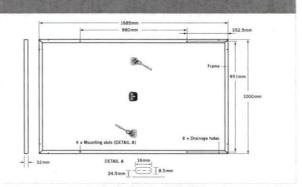
Black anodised aluminium

Cell 6 x 20 monocrystalline Q.ANTUM solar half cells

70-85 mm × 50-70 mm × 13-21 mm Junction box

Protection class IP67, with bypass diodes 4 mm² Solar cable; (+) 1100 mm, (-) 1100 mm

Connector Multi-Contact MC4, IP65 and IP68



EL	ECTRICAL CHARACTERISTICS				HEREN AND		
PON	NER CLASS			305	310	315	320
MIN	IMUM PERFORMANCE AT STANDARD	TEST CONDITIONS, ST	C1 (POWER TOLE	RANCE +5W/-0W)			
	Power at MPP ²	PMPP	[W]	305	310	315	320
	Short Circuit Current*	I _{sc}	[A]	9.78	9.83	9.89	9.94
MINIMUM	Open Circuit Voltage*	V _{oc}	[V]	39.75	40.02	40.29	40.56
M	Current at MPP*	IMPP	[A]	9.31	9.36	9.41	9.47
_	Voltage at MPP*	V _{MPP}	[V]	32.78	33.12	33.46	33.80
	Efficiency ²	η	[%]	≥18.1	≥18.4	≥18.7	≥19.0
MII	NIMUM PERFORMANCE AT NORMAL OP	ERATING CONDITIONS	, NOC3				
	Power at MPP ²	P _{MPP}	[W]	226.0	229.7	233.5	237.2
E	Short Circuit Current*	I _{sc}	[A]	7.88	7.93	7.97	8.02
MINIMIM	Open Circuit Voltage*	Voc	[V]	37.18	37.43	37.69	37.94
Ξ	Current at MPP*	I _{MPP}	[A]	7.32	7.36	7.41	7.45
	Voltage at MPP*	V _{MPP}	[V]	30.88	31.20	31.52	31.84

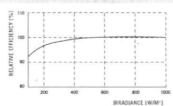
11000W/m², 25°C, spectrum AM 1.5G ² Measurement tolerances STC ± 3 %; NOC ± 5 % ³ 800 W/m², NOCT, spectrum AM 1.5 G * typical values, actual values may differ

Q CELLS PERFORMANCE WARRANTY

At least 98% of nominal power during derigation of nominal power during first year. Thereafter max. 0.54 % degradation per year, At least 93.1 % of nominal power up to 10 years. At least 85 % of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m2).

TEMPERATURE COEFFICIENTS
Temperature Coefficient of I

Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.28
Temperature Coefficient of P _{MPP}	Υ	[%/K]	-0.37	Normal Operating Cell Temperature	NOCT	[°C]	45

PROPERTIES FOR SYSTEM DESIGN		98.2	PER LES		
Maximum System Voltage	V _{sys}	[V]	1000	Safety Class	11
Maximum Reverse Current	I _R	[A]	20	Fire Rating	C
Push/Pull Load (Test-load in accordance with IEC 61215)		[Pa]	5400/4000	Permitted Module Temperature On Continuous Duty	-40 $^{\circ}\text{C}$ up to +85 $^{\circ}\text{C}$

QUALIFICATIONS AND CERTIFICATES

PARTNER

VDE Quality Tested, IEC 61215 (Ed. 2); IEC 61730 (Ed. 1), Application class A This data sheet complies with DIN EN 50380.





NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS GmbH

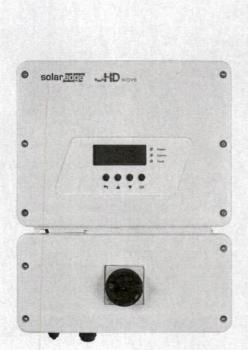
Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany I TEL +49 (0)3494 66 99-23444 I FAX +49 (0)3494 66 99-23000 I EMAIL sales@q-cells.com I WEB www.q-cells.com

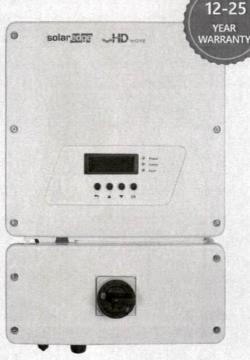


Single Phase Inverter with HD-Wave Technology

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
- 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)



NVERTER

/ Single Phase Inverter with HD-Wave Technology for North America SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/

SE7600H-US / SE10000H-US / SE11400H-US

AND THE RESIDENCE OF THE PROPERTY OF THE PARTY OF THE PAR	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE/600H-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 Min -Nom -Max (183 - 208 - 229)	-	V	-	✓	-	-	· ·	Vac				
AC Frequency (Nominal)			•	59 3 - 60 - 60.5				Hz				
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	А				
Maximum Continuous Output Current @208V		16	-	24	-	8	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	77	=	15500	W				
Transformer-less, Ungrounded				Yes								
Maximum Input Voltage	480 V											
Nominal DC Input Voltage		380 400										
Maximum Input Current @240V	8.5	10.5	13.5	16.5	20	27	30.5	Add				
Maximum Input Current @208V	-	9	-	13.5	-	-	27	Ade				
Max. Input Short Circuit Current	45											
Reverse-Polarity Protection	Yes											
Ground-Fault Isolation Detection	600k₂ Sensitivity											
Maximum Inverter Efficiency	99	99 99.2										
CEC Weighted Efficiency	99 99 98.5 @ 208V											
Nighttime Power Consumption				< 2.5				W				
ADDITIONAL FEATURES												
Supported Communication Interfaces			RS485, Etherne	et, ZigBee (optional), (Cellular (optional)							
Revenue Grade Data, ANSI C12.20				Optional [®]								
Rapid Shutdown - NEC 2014 and 2017 690 12	Automatic Rapid 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 SPECIFICAT	IONS											
AC Output Conduit Size / AWG Range	3/4* minimum / 14-6 AWG 3/4* minimum /14-4 AWG											
DC Input Conduit Size / # of Strings / AWG Range	3/4" minimum / 1-2 strings / 14-6 AWG 3/4" minimum /, 1-3 strings / 14-6 AW											
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						3 / 540 x 370 x 185	in / mn				
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	2 / 11 9	38.	8 / 17.6	lb/				
Noise		4	< 25			<50		dB/				
Cooling				Natural Convection	1							
Operating Temperature Range	-40 to +140 / -25 to +60 ⁽⁴⁾ (-40°F / -40°C option) ⁽⁵⁾											
Protection Rating	NEMA 4X (Inverter with Safety Switch)											

RoHS

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

4-40 version P/N: SExxxXH-US000NNU4