SCOPE OF WORK:

TO INSTALL A ROOF MOUNTED SOLAR PHOTOVOLTAIC SYSTEM AT THE OWNER RESIDENCE LOCATED AT 135 PARK LN. COATS, NC 27521

THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT.

THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES

EQUIPMENT SUMMARY

35 QCELL Q.PEAK DUO BLK-G8 350W MODULES

1 SOLAREDGE SE10000H-US INVERTER

35 SOLAREDGE POWER OPTIMIZER P370

GENERAL NOTES:

- THESE CONSTRUCTION DOCUMENTS HAVE BEEN BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS.
- ARCHITECT HAS NOT BEEN RETAINED TO SUPERVISE ANY CONSTRUCTION OR INSTALLATION OF ANY EQUIPMENT AT SITE.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, OBTAINS ALL PERMITS, LICENSES AND PAY ALL REQUIRED FEES AND COMPLETE INSTALLATION.
- CONTRACTOR HAS THE FULL RESPONSIBILITY TO CHECK AND VERIFY ALL DIMENSIONS ٠ AND EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTION BY THEM WITHOUT ADDITIONAL COMPENSATION.
- DAMAGE CAUSED TO THE EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALL . FLOORS, ETC. SHALL BE REPAIRED TO THE ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.
- . NO CHANGES ARE TO BE MADE WITHOUT THE CONSULTATION AND APPROVAL OF THE ARCHITECT.
- . CONTRACTOR SHALL OBTAIN BULDING PERMIT. NO WORK TO START UNLESS BUILDING PERMIT IS PROPERLY DISPLAYED
- ALL WORKMANSHIP AND MATERIALS SHALL BE OF FIRST QUALITY AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE NC BUILDING CODE, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ALL PERTINENT AGENCIES.
- IT IS ESSENTIAL THAT ALL WORK PROCEED WITH THE MAXIMUM COOPERATION OF ALL . PARTIES AND WITH MINIMUM INTERFERENCE TO THE OCCUPANTS WITHIN THE BUILDING. THE OWNER'S DIRECTIONS IN THIS REGARD SHALL BE FULLY COMPLIED WITH
- ALL EXPOSED PLUMBING, HVAC, ELECTRICAL DUCTWORK, PIPING AND CONDUITS ARE TO BE PAINTED BY GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL PERFORM THE WORK IN STRICT CONFORMANCE WITH THE LOCAL LAWS, REGULATIONS AND THE NATIONAL ELECTRIC CODE.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, AFFIDAVITS.
- CERTIFICATIONS, ETC. AND PAY ALL FEES AS REQUIRED BY THE LOCAL AUTHORITIES.
- CONTRACTORS SHALL OBTAIN FIRE CERTIF. UPON COMPLETION OF WORK.

ELECTRICAL NOTES:

- THE EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE INSTALLED ONLY BY QUALIFIED PEOPLE. A QUALIFIED PERSON IS ONE WHO HAS SKILLS AND KNOWLEDGE RELATED TO THE CONSTRUCTION AND OPERATION OF THE ELECTRICAL EQUIPMENT AND INSTALLATIONS AND HAS RECEIVED SAFETY TRAINING TO RECOGNIZE AND AVOID THE HAZARDS INVOLVED. (NEC 690.4(E) AND 705.6)
- LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR TO USE AND ACTIVATION OF ANY SOLAR PHOTOVOLTAIC INSTALLATION. FOR A LINE SIDE TAP CONNECTION, UTILITY NEEDS TO BE NOTIFIED WELL IN ADVANCE TO COORDINATE BUILDING ELECTRICAL SHUT OFF.
- NEW CONDUIT ROUTING SHOWN IS ESSENTIALLY SCHEMATIC. SUBCONTRACTOR SHALL LAY OUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION . REQUIREMENTS OF OTHER TRADES.
- ARRAY WIRING SHOULD NOT BE READILY ACCESSIBLE EXCEPT TO QUALIFIED PERSONNEL
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE WATERTIGHT AND APPROVED FOR USE IN WET LOCATIONS. (NEC 314.15A)
- WIRING METHODS FOR PV SYSTEM CONDUCTORS AREN'T PERMITTED WITHIN 10 IN. OF THE ROOF DECKING OR SHEATHING EXCEPT WHERE LOCATED DIRECTLY BELOW THE ROOF SURFACE THAT'S COVERED BY PV MODULES AND ASSOCIATED EQUIPMENT WIRING
- BACK-FED BREAKER MUST BE AT THE OPPOSITE END OF BUS BAR FROM THE MAIN BREAKER OR MAIN LUG SUPPLYING CURRENT FROM THE UTILITIES.
- ALL CONDUCTORS AND WIRE TIES EXPOSED TO SUNLIGHT ARE LISTED AS UV RESISTANT.
- CONTRACTOR SHALL FOLLOW ALL ELECTRICAL EQUIPMENT LABELING REQUIREMENTS IN NEC 690 AND IFC 2015
- MEASURE THE LINE-TO-LINE AND LINE-TO-NEUTRAL VOLTAGE OF ALL SERVICE ENTRANCE CONDUCTORS PROIR TO INSTALLING ANY SOLAR EQUIPMENT. THE VOLTAGES FOR THE 240VAC RATED.

GOVERNING CODES

2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL RESIDENTIAL CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE 2018 UNIFORM MECHANICAL CODE 2018 UNIFORM PLUMBING CODE

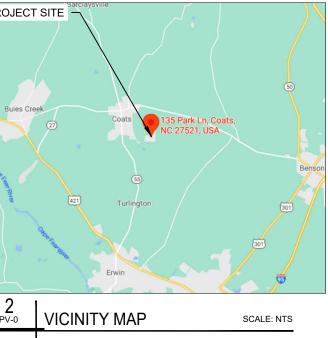
WIRING AND CONDUIT NOTES

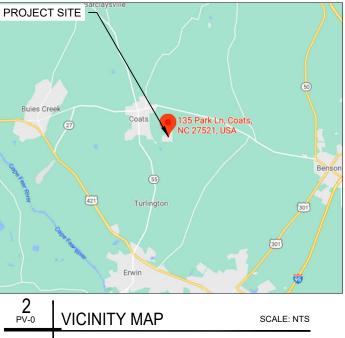
- ALL CONDUIT SIZES AND TYPES, SHALL BE LISTED FOR ITS PURPOSE AND APPROVED FOR THE SITE APPLICATIONS
- ALL PV CABLES AND HOMERUN WIRES BE #10AWG *USE-2, PV WIRE, OR PROPRIETARY SOLAR CABLING SPECIFIED BY MFR, OR EQUIVALENT; ROUTED TO SOURCE CIRCUIT COMBINER BOXES AS REQUIRED
- ALL CONDUCTORS AND OCPD SIZES AND TYPES SPECIFIED ACCORDING TO [NEC 690.8 (A)(1) & (B)(1)], [NEC 240] [NEC 690.7] FOR MULTIPLE CONDUCTORS
- ALL PV DC CONDUCTORS IN CONDUIT EXPOSED TO SUNLIGHT SHALL BE DERATED ACCORDING TO [NEC TABLE 310.15 (B)(2)(C)] BLACK ONLY**
- EXPOSED ROOF PV DC CONDUCTORS SHALL BE USE-2, 90°C RATED, WET AND UV RESISTANT, AND UL LISTED RATED FOR 600V, UV RATED SPIRAL WRAP SHALL BE USED TO PROTECT WIRE FROM SHARP EDGES
- PHASE AND NEUTRAL CONDUCTORS SHALL BE DUAL RATED THHN/THWN-2 INSULATED, 90°C RATED, WET AND UV RESISTANT, RATED FOR 600V PER NEC 2008 OR 1000V PER NEC 2011
- 4-WIRE DELTA CONNECTED SYSTEMS HAVE THE PHASE WITH THE HIGHER VOLTAGE TO GROUND MARKED ORANGE OR **IDENTIFIED BY OTHER EFFECTIVE MEANS**
- ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION
- VOLTAGE DROP LIMITED TO 2% FOR DC CIRCUITS AND 1% FOR AC CIRCUITS
- NEGATIVE GROUNDED SYSTEMS DC CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS: DC POSITIVE - RED (OR MARKED RED), DC NEGATIVE - GREY (OR MARKED GREY)
- POSITIVE GROUNDED SYSTEMS DC CONDUCTORS COLOR CODED: DC POSITIVE - GREY (OR MARKED GREY), DC NEGATIVE - BLACK (OR MARKED BLACK)
- AC CONDUCTORS >4AWG COLOR CODED OR MARKED: PHASE A OR L1- BLACK, PHASE B OR L2- RED, PHASE C OR L3- BLUE, **NEUTRAL- WHITE/GRAY**

SYSTEM I	RATING	
12.25 KW	'DC	
10.00 KW	/AC	
	SHEET INDE	X
PV-0	COVER F	AGE
PV-1	SITE PL	.AN
PV-2	ROOF PLAN &	MODULES
PV-2A	STRING LAYO	UT & BOM
PV-3	ATTACHMEN	T DETAIL
PV-3A	ATTACHMEN	T DETAIL
PV-4	ELECTRICAL LINE DIA	AGRAM & CALCS.
PV-4A	SPECIFICATION	IS & NOTES
PV-5	SIGNA	GE
PV-6+	EQUIPMENT SPE	CIFICATIONS

PV-0







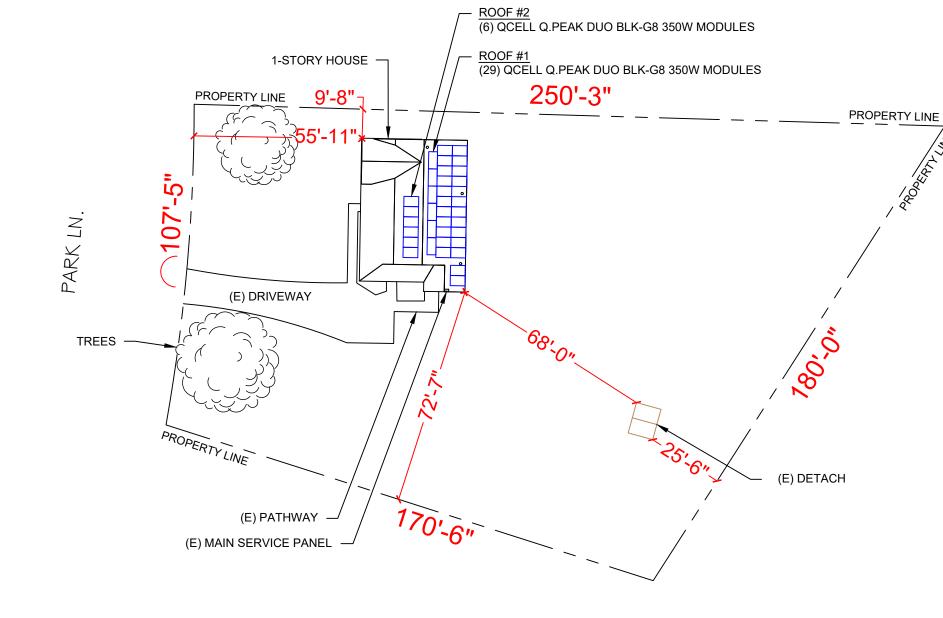
HOUSE PHOTO

SCALE: NTS

REVISIONS DESCRIPTION DATE	REV
Signature with Se	eal
DATE: 08/12/202	21
PROJECT NAME & AE	DRESS
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ILA	94 gmail.
GU 21	0594 @gi
ARMANDO CRUZ AG RESIDENCE 135 PARK LN. COATS, NC 27521	PH NO. (919) 244-059 EMAIL ID: Elvisluissantos11@
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SHEET NAME	
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SITE NOTES

- A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS AN UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.
- THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
 PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION [NEC 110.26]

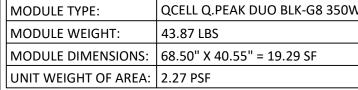


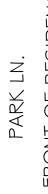


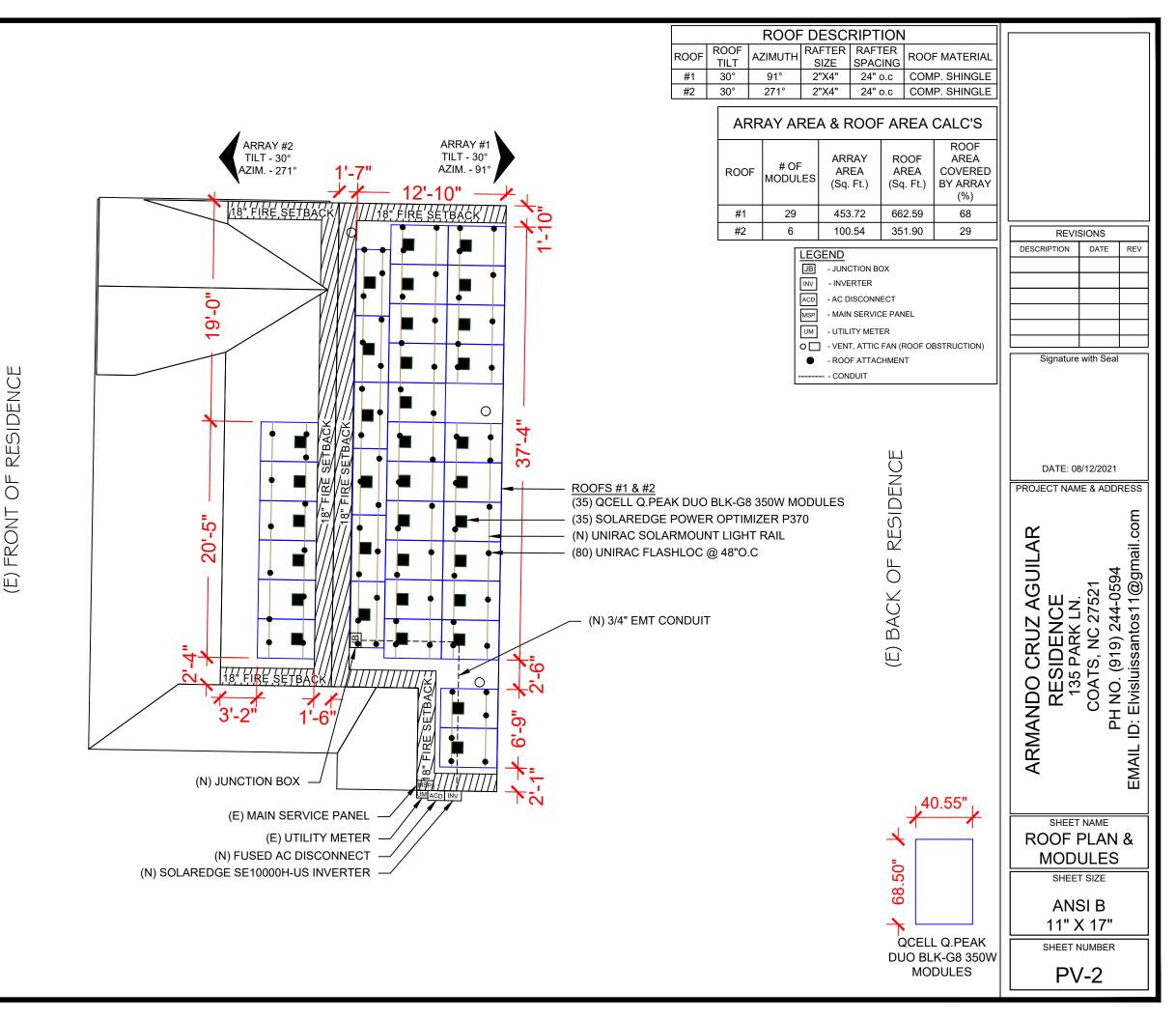
REVISIONS DESCRIPTION DATE REV DESCRIPTION DATE REV DESCRIPTION DATE REV DATE: 08/12/2021 PROJECT NAME & ADDRESS DATE: 08/12/2021 PROJECT NAME & ADDRESS 132 PARK LN. 132 PARK LN. 132 PARK LN. 132 PARK LN. 132 PARK LN. 133 PARK LN. SHEET NAME SHEET NAME SHEET SIZE ANSI B 11" X 17" SHEET NUMBER PV-1
DESCRIPTION DATE REV DESCRIPTION DATE REV DATE: 08/12/2021 Signature with Seal DATE: 08/12/2021 PROJECT NAME & ADDRESS DATE: 08/12/2021 PROJECT NAME & ADDRESS 132 bARK LN. COATS' NC 57521 SHEET NAME SITE PLAN SHEET SIZE ANSI B 11" X 17" SHEET NUMBER
DATE: 08/12/2021 PROJECT NAME & ADDRESS U BROULAK BESIDENCE 132 PARK LN. 132 PARK LN. 133 PARK LN. 134 0204 BH NO. (919) 544-0204 SHEET NIZE ANSI B 11" X 17" SHEET NUMBER
DATE: 08/12/2021 PROJECT NAME & ADDRESS U BROULAK BESIDENCE 132 PARK LN. 132 PARK LN. 133 PARK LN. 134 0204 BH NO. (919) 544-0204 SHEET NIZE ANSI B 11" X 17" SHEET NUMBER
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ANSI B 11" X 17" SHEET NUMBER
11" X 17" SHEET NUMBER

POPENTLINE

DESIGN	SPE	CIFIC	١T	ON
RISK CATEGORY:			II	
CONSTRUCTION:			SF	Đ
ZONING:			RE	SIDENTIAL
SNOW LOAD (ASCE 7-10)):		15 PSF	
EXPOSURE CATEGORY:			В	
WIND SPEED (ASCE 7-10)):		11	8 MPH
PANEL HEIGHT OFF ROOF 4'				
MODULE TYPE, DIMENSIONS & WEIGHT				
NUMBER OF MODULES:	S: 35 MODULES			
MODULE TYPE:	QCELL Q.PEAK DUO BLK-G8 350W			



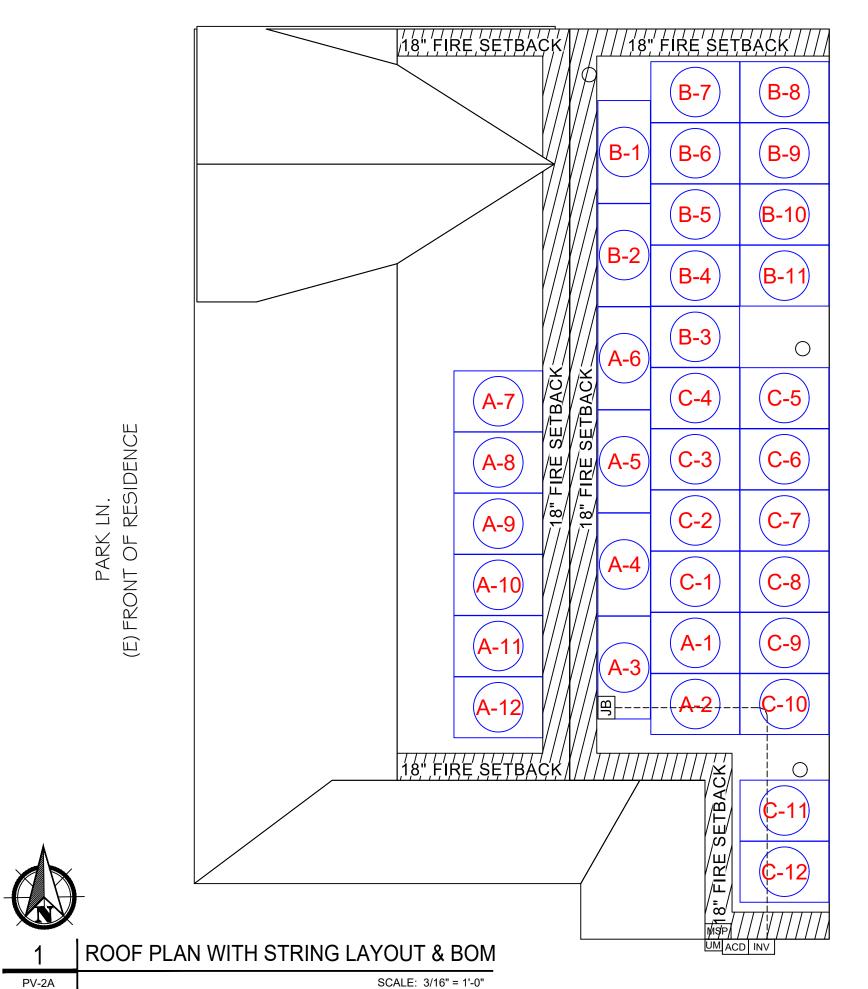






ROOF PLAN & MODULES

SCALE: 1/8" = 1'-0"



		BILL OF MATE
EQUIPMENT	QTY	
SOLAR PV MODULE	35	QCELL Q.PEAK DUO BL
OPTIMIZER	35	SOLAREDGE POWER O
INVERTER	1	SOLAREDGE SE10000H
AC DISCONNECT	1	60A FUSED AC DISCON UL LISTED
JUNCTION BOX	1	JUNCTION BOX, NEMA 3
ATTACHMENT	80	5/16" x 4" SS LAG BOLT
ATTACHMENT	80	SS SERRATED T-BOLT
ATTACHMENT	80	FLASHLOC BASE
RAILS	21	UNIRAC SOLARMOUNT
BONDED SPLICE	14	XR-10 BONDED SPLICE
CLAMPS	58	MODULES CLAMPS (MI
CLAMPS	12	MODULES CLAMPS (EN
GROUNDING LUG	6	GROUNDING LUG

Β Α

(E) BACK OF RESIDENCE

ERIALS

DESCRIPTION

LK-G8 350W

OPTIMIZER P370

H-US

NNECT, (2) 60A FUSES, 240V, NEMA 3R,

SR, UL LISTED

W/ SS EPDM BONDED WASHER W/ SS SERRATED FLANGE NUT

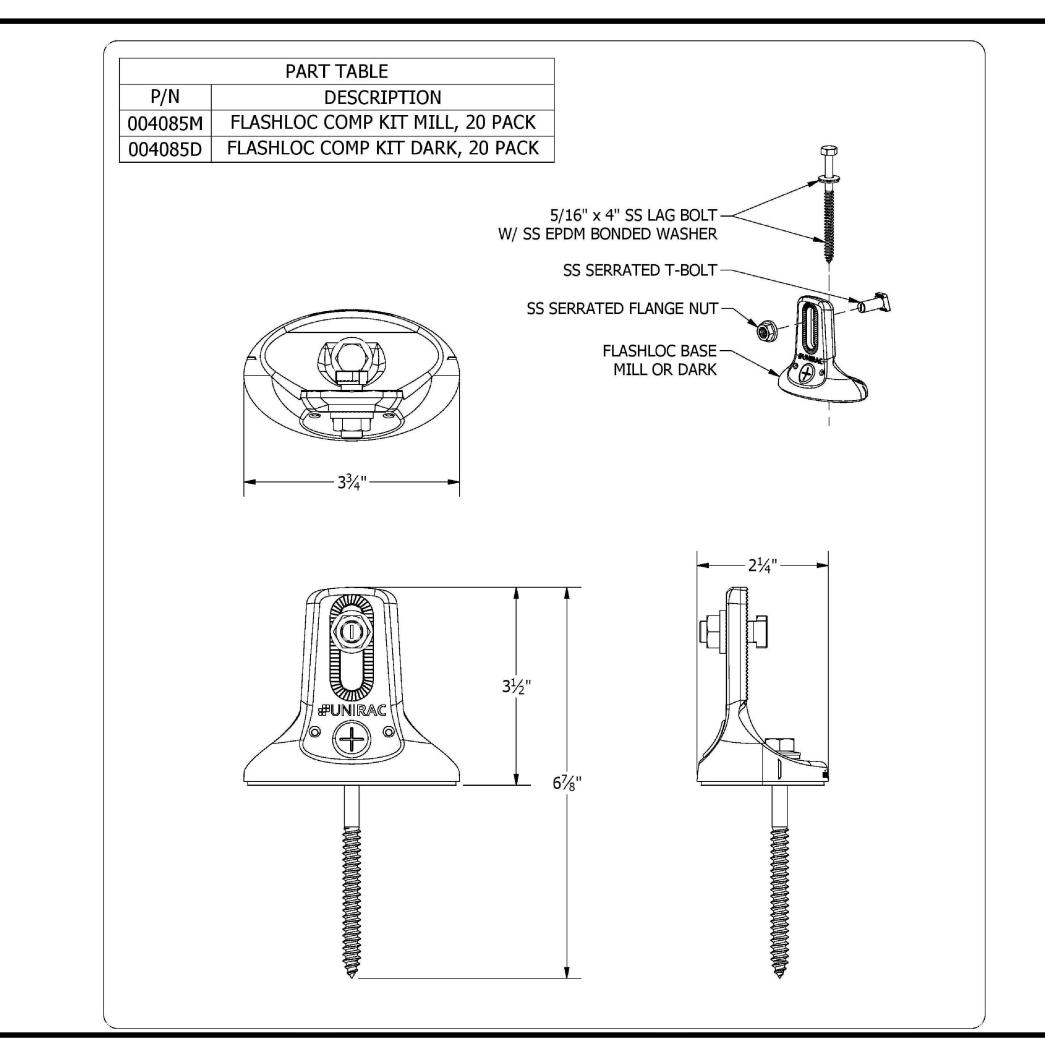
LIGHT RAIL 14 FEET (168")

ID CLAMPS)

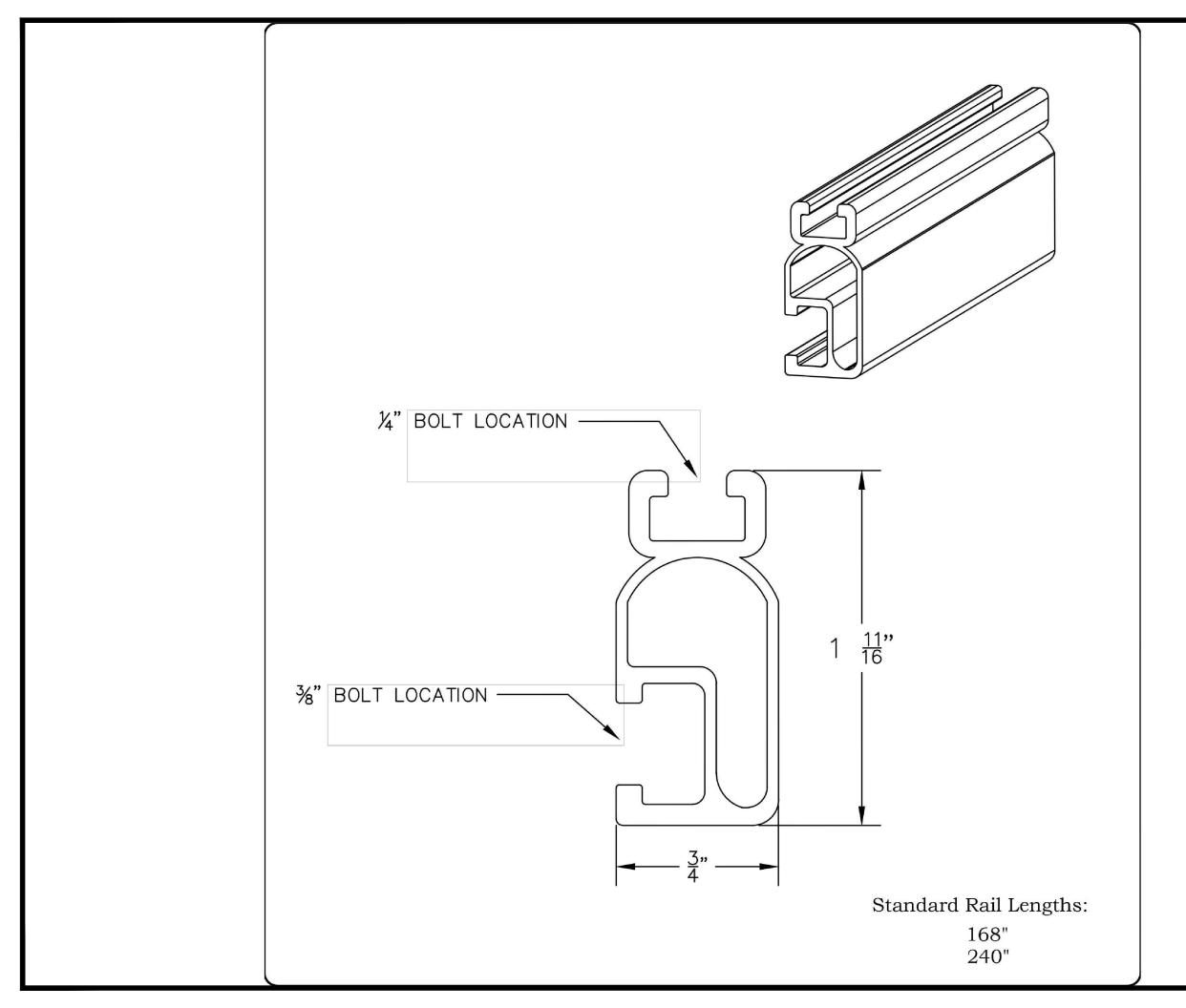
ND CLAMPS)



REVIS	SIONS			
DESCRIPTION	DATE	REV		
Signature				
DATE: 08	3/12/2021			
PROJECT NAM	IE & ADD	RESS		
ARMANDO CRUZ AGUILAR RESIDENCE 135 PARK LN	Ľ	EMAIL ID: Elvisluissantos11@gmail.com		
SHEET NAME STRING LAYOUT & BOM				
SHEE				
	K 17"			
PV-2A				

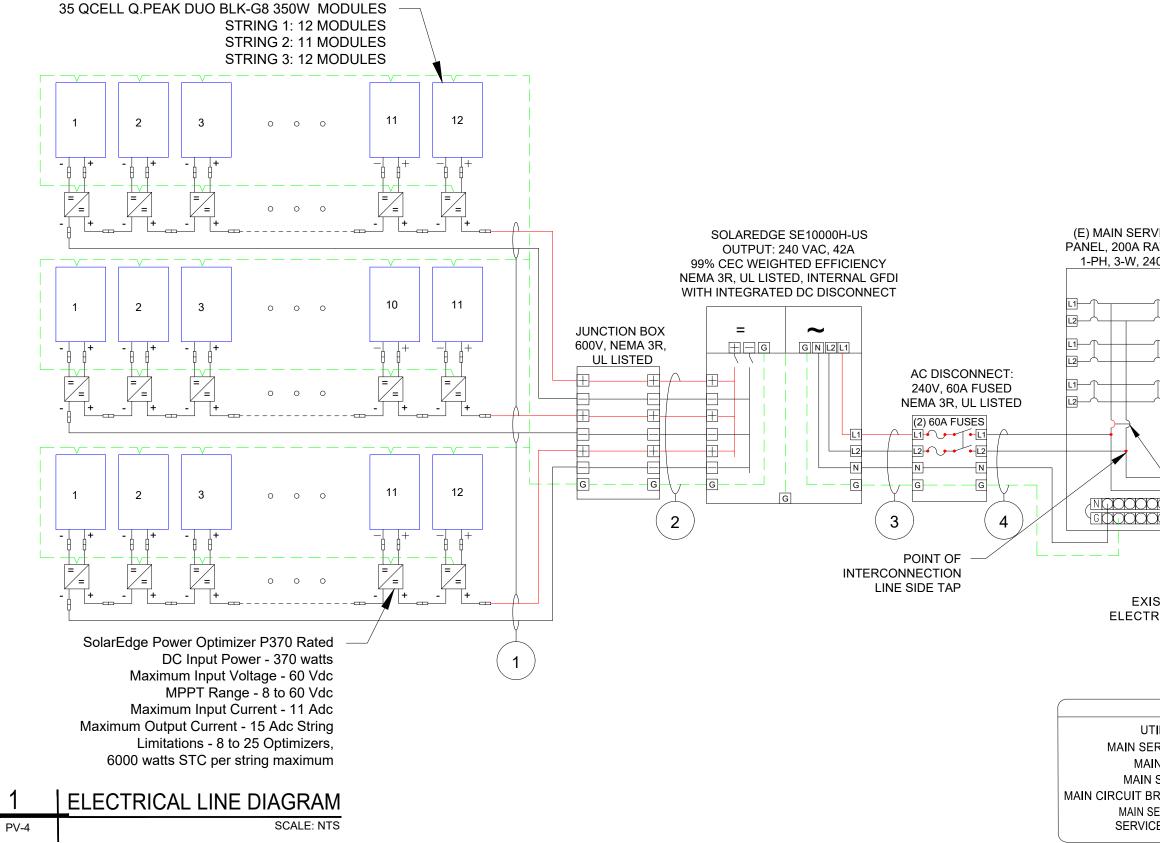








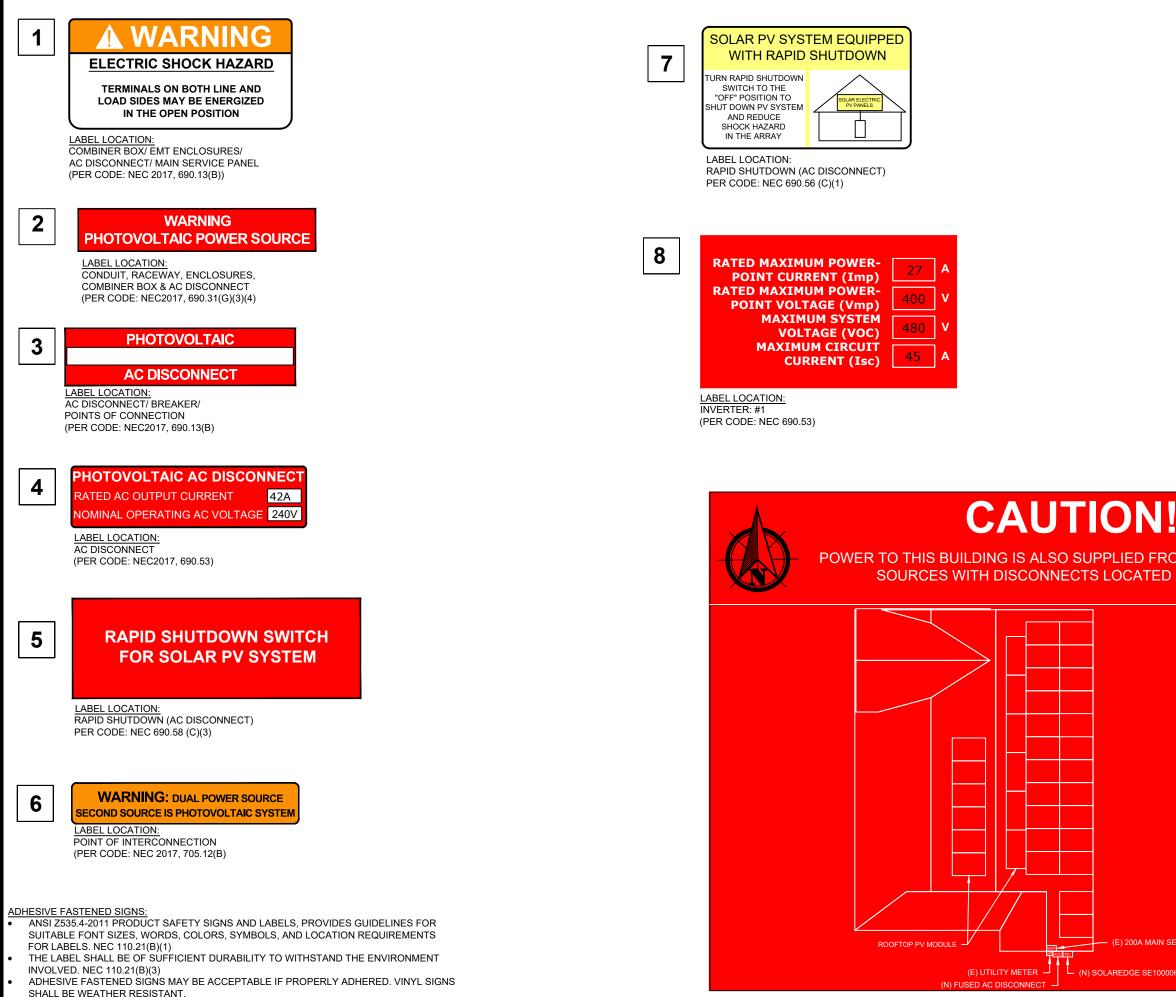
ID	TYPICAL	INITIAL CONDUCTOR LOCATION	FINAL CONDUCTOR LOCATION	CONDU	TOR	CONDUIT	# OF PARALLEL CIRCUITS	CURRENT-CARRYING CONDUCTORS IN CONDUIT	CONDUIT FILL PERCENT	OCPD	E	GC		. Corr. Ctor	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT
1	3	STRING	JUNCTION BOX	10 AWG PV WI	RE COPPER	Open Air	1	2	N/A	N/A	6 AWG	BARE COPPER	0.71	(57°C)	N/A	15.0A	18.8A
2	1	JUNCTION BOX	INVERTER	10 AWG THWN	-2 COPPER	MIN 0.75" Dia EMT	3	6	26.72%	N/A	8 AWG	THWN-2, COPPER	0.96	(35°C)	0.8	15.0A	18.8A
3	1	INVERTER	FUSED AC DISCONNECT	6 AWG THWN	-2 COPPER	MIN 0.75" Dia EMT	1	3	36.53%	60A	8 AWG	THWN-2, COPPER	0.96	(35°C)	1	42.0A	52.5A
4	1	FUSED AC DISCONNECT	MSP	6 AWG THWN	-2 COPPER	MIN 0.75" Dia EMT	1	3	36.53%	N/A	8 AWG	THWN-2, COPPER	0.96	(35°C)	1	42.0A	52.5A



IΤ	BASE AMP.	DERATED AMP.	term. Temp. Rating	LENGTH	VOLTAGE DROP	
	40A	28.4A	90°C	71FT	0.02%	
	40A	30.7A	90°C	32FT	0.11%	
	75A	72.0A	90°C	5FT	0.13%	
	75A	72.0A	90°C	5FT	0.13%	
		DUTILITY GRID	AIN BREAI E 240 V, 2	7 W KER TO		REVISIONS DESCRIPTION DATE REV DESCRIPTION DATE Signature with Seal DATE: 08/12/2021 DATE: PROJECT NAME & ADDRESS DATE: 0.0312, NC 52251 DH NO. (616) 544-0264 DH NO. (616) 544-0264 BH NO. (616) 544-0264 SHEET NAME EMAURICAL LINE
	SEF	RVICE INF	0			& CALCS.
				RGY		SHEET SIZE
		LTAGE: 24 BRAND: S				ANSI B 11" X 17"
		PANEL: 20 ATING: 20				SHEET NUMBER
ERV	ICE LO	CATION: S		OUND		PV-4
)	

SOLAR MOD	ULE SPECIFICATIONS			
MANUFACTURER / MODEL	QCELL Q.PEAK DUO BLK-G8 350W			
VMP	34.97 V			
IMP	10.01 A			
VOC	41.21 V			
ISC	10.51 A			
TEMP. COEFF. VOC	-0.27%/K			
PTC RATING	328.55 W			
MODULE DIMENSION	68.50"(L) × 40.55""(W)			
PANEL WATTAGE	350W			
INVERTEF	R SPECIFICATION			
MANUFACTURER / MODEL	SOLAREDGE SE10000H-US			
NOMINAL AC POWER	10000 W			
NOMINAL OUTPUT VOLTAGE	240 VAC			
NOMINAL OUTPUT CURRENT	42A			
POWER OPTIMIZER (SOLAREDGE P370)				
MAXIMUM INPUT POWER	370 W			
MAXIMUM INPUT VOLTAGE	60 VDC			
MAXIMUM INPUT ISC	11 ADC			
MAXIMUM OUTPUT CURRENT	15 ADC			
WEIGHTED EFFICIENCY	98.80%			
AMBIENT TE	EMPERATURE SPECS			
RECORD LOW TEMP	-10°C			
AMBIENT TEMP (HIGH TEMP 2%)	35°C			
CONDUIT HEIGHT	0.5"			
ROOF TOP TEMP	90°C			
CONDUCTOR TEMPERATURE RATE	57°C			
MODULE TEMPERATURE COEFFICIE	NT OF VOC -0.27%/K			
PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT			
0.80 4-6				
0.70	7-9			
0.50	10-20			





AS SHOWN. I 32 PARK LN. U 00 (13) 244-069 EMAIL ID: Elvisinisantos11(0) SHEET NUMBER SHEET NUMBER		
THE FOLLOWING AS SHOWN.		DESCRIPTION DATE REV
RVICE PANEL	OM THE FOLLOWING AS SHOWN.	ARMANDO CRUZ AGUILAR RESIDENCE 135 PARK LN. COATS, NC 27521 PH NO. (919) 244-0594 EMAIL ID: Elvisluissantos11@gmail.com
RVICE PANEL ANSI B 11" X 17" SHEET NUMBER		
RVICE PANEL 11" X 17" SHEET NUMBER		SHEET SIZE
RVICE PANEL SHEET NUMBER		
I-US INVERTER PV-5	RVICE PANEL	
	H-US INVERTER	PV-5



Q.PEAK DUO BLK-G8 335-350

ENDURING HIGH PERFORMANCE





VDE

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 19.8%.

INNOVATIVE ALL-WEATHER TECHNOLOGY Optimal yields, whatever the weather with excellent

ENDURING HIGH PERFORMANCE

low-light and temperature behaviour.

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).



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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.

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

THE IDEAL SOLUTION FOR:



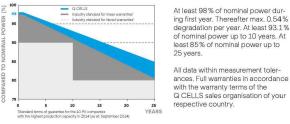
Rooftop arrays on residential buildings



Format	1740 mm × 1030 mm × 32 mm (including frame)	
Weight	19.9kg	
Front Cover	3.2 mm thermally pre-stressed glass with anti-reflection technology	-
Back Cover	Composite film	
Frame	Black anodised aluminium	
Cell	6 × 20 monocrystalline Q.ANTUM solar half cells	
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes	
Cable	4 mm² Solar cable; (+) ≥1150 mm, (-) ≥1150 mm	
Connector	Stäubli MC4; IP68	4 × N

	EL	ECTRICAL	CHARACTERISTIC	CS
/ER CLASS			335	340
IMUM PERFORMANCE AT STANDAR	D TEST CONDITIO	NS, STC ¹ (PO	WER TOLERANCE +5 W / -	-0W)
Power at MPP ¹	P _{MPP}	[W]	335	340
Short Circuit Current ¹	I _{SC}	[A]	10.34	10.40
Open Circuit Voltage ¹	Voc	[V]	40.44	40.70
Current at MPP	IMPP	[A]	9.85	9.90
Voltage at MPP	V _{MPP}	[V]	34.01	34.34
Efficiency1	η	[%]	≥18.7	≥19.0
IMUM PERFORMANCE AT NORMAL	OPERATING COND	ITIONS, NMO	DT ²	
Power at MPP	P _{MPP}	[W]	250.9	254.6
Short Circuit Current	I _{sc}	[A]	8.33	8.38
Open Circuit Voltage	V _{oc}	[V]	38.13	38.38
Current at MPP	I _{MPP}	[A]	7.75	7.79
Voltage at MPP	V _{MPP}	[V]	32.36	32.67
surement tolerances $P_{MPP}\pm3\%;I_{SC};V_{OC}\pm5$	5% at STC: 1000 W/m ²	, 25±2°C, AM 1	1.5 according to IEC 60904-3	• ² 800W/m ² , N
	Power at MPP ¹ Short Circuit Current ¹ Open Circuit Voltage ¹ Current at MPP Voltage at MPP Efficiency ¹ IMUM PERFORMANCE AT NORMAL Power at MPP Short Circuit Current Open Circuit Voltage Current at MPP Voltage at MPP	VER CLASS IMUM PERFORMANCE AT STANDARD TEST CONDITIO Power at MPP ¹ P _{MPP} Short Circuit Current ¹ I _{SC} Open Circuit Voltage ¹ V _{OC} Current at MPP I _{MPP} Efficiency ¹ q IMUM PERFORMANCE AT NORMAL OPERATING COND Power at MPP P _{MPP} Short Circuit Current I _{SC} Open Circuit Voltage V _{OC} Current at MPP I _{MPP}	VER CLASS IMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (PO Power at MPP ¹ P _{MEP} [W] Short Circuit Current ¹ I _{SC} [A] Open Circuit Voltage ¹ V _{OC} [V] Current at MPP I _{MEP} [A] Voltage at MPP V _{MPP} [V] Efficiency ¹ ŋ [%] IMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMC Power at MPP P _{MEPP} [W] Short Circuit Current I _{SC} [A] Open Circuit Voltage V _{OC} [V] Current at MPP I _{MEPP} [A] Voltage at MPP I _{MEPP} [A] Voltage at MPP [V] [V]	IMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/- Power at MPP ¹ P_{MPP} $[W]$ 335Short Circuit Current ¹ I_{SC} $[A]$ 10.34Open Circuit Voltage ¹ V_{OC} $[V]$ 40.44Current at MPP I_{MPP} $[A]$ 9.85Voltage at MPP V_{MPP} $[V]$ 34.01Efficiency ⁴ η $[\%]$ ≥ 18.7 IMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ² Power at MPP P_{MPP} Power at MPP P_{MPP} $[W]$ 250.9Short Circuit Current I_{SC} $[A]$ 8.33Open Circuit Voltage V_{OC} $[V]$ 38.13Current at MPP I_{MPP} $[A]$ 7.75

Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power dur ing 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 toler-



respective country TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	Temperature Coefficient of V_{or}
Temperature Coefficient of P_{MPP}	γ	[%/K]	-0.35	Normal Module Operating Tem

PROPERTIES FOR SYSTEM DESIGN

Number of Modules per Pallet

Pallet Dimensions (L × W × H)

Pallet Weight

Maximum System Voltage	V _{SYS}	[V]	1000	Protection Class
Maximum Reverse Current	I _R	[A]	20	Fire Rating based on ANSI/UL
Max. Design Load, Push / Pull		[Pa]	3600/2667	Permitted Module Temperature
Max. Test Load, Push / Pull		[Pa]	5400/4000	on Continuous Duty

QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application Class II; This data sheet complies with DIN EN 50380. Number of Pallets per Trailer (24t)





CE

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 | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

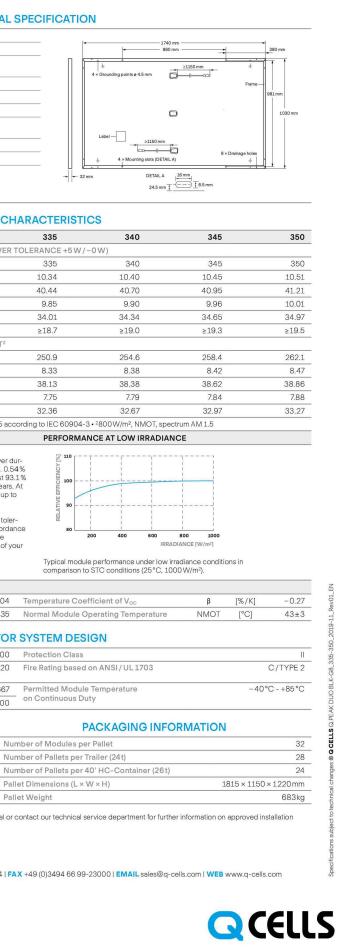


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Single Phase Inverter with HD-Wave Technology

for North America

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



Optimized installation with HD-Wave technology

- J Specifically designed to work with power optimizers
- Record-breaking 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 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
- Øutdoor and indoor installation
- / Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)



NVERTERS

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-XXXXXBXX	4			
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)			1	Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	i i i	16	-	24	-	-	48.5	A
Power Factor			1	, adjustable -0.85 to 0	.85			
GFDI Threshold				1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								100 C
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V		5100		7750	1.00	-	15500	W
Transformer-less, Ungrounded				Yes				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage		38	30			400		Vdc
Maximum Input Current @240V ²	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ²³	14	9	-	13.5	-	2	27	Adc
Max. Input Short Circuit Current				45				Adc
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600kg Sensitivity				
Maximum Inverter Efficiency	99			9	9.2			%
CEC Weighted Efficiency			g	9			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W

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

solaredge.com

DESCRIPTION	SIONS DATE	REV		
Signature	with Seal			
DATE: 08 PROJECT NAM	3/12/2021 IE & ADD	_		
ARMANDO C RESI 135 F	COATS, NC 27521 PH NO (919) 244-0594	EMAIL ID: Elvisluissantos11@gmail.com		
SHEET NAME EQUIPMENT SPECIFICATION SHEET SIZE				
ANSI B 11" X 17"				
SHEET N	NUMBER			
P\	/-7			

/ 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									
Supported Communication Interfaces			RS485, Etherne	et, ZigBee (optional), C	ellular (optional)				
Revenue Grade Data, ANSI C12.20		Optional ⁽³⁾							
Inverter Commissioning		with the Se	etApp mobile applicati	ion using built-in Wi-F	i Access Point for loca	al connection			
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rap	id Shutdown upon AC	Grid Disconnect				
STANDARD COMPLIANCE									
Safety		UL1741	1, UL1741 SA, UL1699B	, CSA C22.2, Canadiar	AFCI according to T.	I.L. M-07			
Grid Connection Standards			IEE	E1547, Rule 21, Rule 14	(HI)				
Emissions				FCC Part 15 Class B					
INSTALLATION SPECIFICA	TIONS								
AC Output Conduit Size / AWG Range		្រា	'' Maximum / 14-6 AW	<mark>/</mark> G		1" Maximum	/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							
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			-4	40 to +140 / -40 to +6	i0 ⁽⁴⁾			"F/"C	
Protection Rating			NEMA	4X (Inverter with Safet	y Switch)				

Revenue grade inverter P/N: SExxxxH-US000BNC4
 Full power up to at least 50°C / 122°F; for power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf



Power Optimizer

For North America P320 / P340 / P370 / P400 / P405 / P505



POWER OPTIMIZER

PV power optimization at the module-level

- I 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

P320 / P340 / P370 / P400 / P405 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72-cell modules)	P400 (for 72 & 96- cell modules)	P405 (for thin film modules)	P505 (for higher current modules)	
INPUT							
Rated Input DC Power ⁽¹⁾	320	340	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	2	18	60	80	125 ⁽²⁾	87(2)	Vdc
MPPT Operating Range	8 -	48	8 - 60	8 - 80	12.5 - 105	12.5 - 87	Vdc
Maximum Short Circuit Current (Isc)		11		10	11	14	Adc
Maximum DC Input Current		13.75		12	.5	17.5	Adc
Maximum Efficiency			99	.5			%
Weighted Efficiency			98.8			98.6	%
Overvoltage Category			1	U.			
OUTPUT DURING OPER	ATION (POWER	OPTIMIZER CO	NNECTED TO C	PERATING SOL	AREDGE INVER	TER)	11
Maximum Output Current		15					
Maximum Output Voltage		6	0		8	35	Vdc
Safety Output Voltage per Power Optimizer			1 ±	0.1		-	Vdc
STANDARD COMPLIANO	CE						
EMC		FC	C Part15 Class B, IEC6	1000-6-2, IEC61000-6	-3		
Safety			IEC62109-1 (class	ll safety), UL1741			
Material			UL94 V-0 , U	JV Resistant		_	_
RoHS		Yes					
INSTALLATION SPECIFIC	ATIONS		-16				
and the second of Louis	1000.						
Maximum Allowed System Voltage							Vdc
Maximum Allowed System		All Sc		00	erters		Vdc
Maximum Allowed System Voltage	129	All Sc x 153 x 27.5 / 5.1 x 6 ;	100 NarEdge Single Phase	00	erters 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	Vdc mm / ir
Maximum Allowed System Voltage Compatible inverters	129		100 NarEdge Single Phase x 1.1	00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7	129 x 159 x 49.5 /		mm / i
Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H)	129	x 153 x 27.5 / 5.1 x 6 :	100 IarEdge Single Phase x 1.1 Single or d	00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 ual MC4 ⁽⁹⁾	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	5.1 x 6.4 x 2.3	
Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables)	129	x 153 x 27.5 / 5.1 x 6 :	100 NarEdge Single Phase x 1.1	00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 ual MC4 ⁽⁹⁾	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9	5.1 x 6.4 x 2.3	mm / i
Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector		x 153 x 27.5 / 5.1 x 6 x 630 / 1.4	100 IarEdge Single Phase x 1.1 Single or d	00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 ual MC4 ⁽³⁾ 0.52 lated / MC4	129 x 159 x 495 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm / i gr / lb
Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length		x 153 x 27.5 / 5.1 x 6 :	100 IolarEdge Single Phase x 1.1 Single or d 0.16 /	00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 ual MC4 ^(a) 0.52	129 x 159 x 495 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm/i gr/lb m/ft m/ft
Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector		x 153 x 27.5 / 5.1 x 6 x 630 / 1.4	100 IolarEdge Single Phase x 1.1 Single or d 0.16 /	00 and Three Phase inve 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 ual MC4 ⁽³⁾ 0.52 lated / MC4 1.2 /	129 x 159 x 495 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm / i gr / lb
Maximum Allowed System Voltage Compatible inverters Dimensions (W x L x H) Weight (including cables) Input Connector Input Wire Length Output Wire Type / Connector Output Wire Length		x 153 x 27.5 / 5.1 x 6 x 630 / 1.4	100 plarEdge Single Phase x1.1 Single or d 0.16 / Double Insu	00 and Three Phase inw 129 x 153 x 33.5 / 5.1 x 6 x 1.3 750 / 1.7 ual MC4 ⁽³⁾ 0.52 lated / MC4 1.2 / -40 - +185	129 x 159 x 495 / 5.1 x 6.3 x 1.9 845 / 1.9	5.1 x 6.4 x 2.3	mm/i gr/lb m/ft m/ft

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

^{III} For other connector types please contact SolarEdge
^{III} 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.

PV System D a SolarEdge	esign Using Inverter ⁽⁵⁾⁽⁶⁾	Single Phase HD-Wave	Single phase	Three Phase 208V	Three Phase 480V	
Minimum String Length	P320, P340, P370, P400	8	6	10	18	
(Power Optimizers)	P405 / P505	6		8	14	5.
Maximum String Length (Power Optimizers)		25	5	25	50 ¹⁷⁾	
Maximum Power per Stri	ng	5700 (6000 with SE7600-US - SE11400- US)	5250	60.00 ⁽⁸⁾	12750 ⁽⁹⁾	W
Parallel Strings of Differer	nt Lengths			Yes		

or Orientations

^M For detailed \$\pi\$ information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
 ^M It is not allowed to mix P405/P505 with P320/P340/P370/P400 in one \$\pi\$ ring
 ^M A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
 ^M A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
 ^M For SE14.4KUS/SE43.2KUS: It is allowed to install up to 6,500W per \$\pi\$ ing when 3 \$\pi\$ rings are connected to the inverter (3 \$\pi\$ rings per unit for SE43.2KUS) and when the maximum power difference between the \$\pi\$ to 1000W
 ^M For SE30KUS/SE53.3KUS/SE66.6KUS/SE100KUS: It is allowed to install up to 15,000W per \$\pi\$ ring when 3 \$\pi\$ rings are connected to the inverter (3 \$\pi\$ rings per unit for SE66.6KUS/SE100KUS) and when the maximum power difference between the strings is up to 10,000W
 ^M For SE30KUS/SE53.3KUS/SE66.6KUS/SE100KUS): It is allowed to install up to 15,000W per \$\pi\$ ring when 3 \$\pi\$ rings are connected to the inverter (3 \$\pi\$ rings per unit for SE66.6KUS/SE100KUS) and when the maximum power difference between the strings is \$\pi\$ to 10,000W

and when the maximum power difference between the strings is up to 2,000W

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REV	ISIONS
DESCRIPTION	DATE REV
Signatur	e with Seal
ARMANDO CRUZ AGUILAR RESIDENCE	COATS, NC 27521 COATS, NC 27521 PH NO. (919) 244-0594 EMAIL ID: Elvisluissantos11@gmail.com
EQUI SPECIF	T NAME PMENT FICATION
	ET SIZE
AN 11"	SI B X 17"

FLASH LOC



FLASHLOC is the ultimate attachment for composition shingle and rolled comp roofs. The all-in-one mount installs fast — no kneeling on hot roofs to install flashing, no prying or cutting shingles, no pulling nails. Simply drive the lag bolt and inject sealant into the base. **FLASH**LOC's patented TRIPLE SEAL technology preserves the roof and protects the penetration with a permanent pressure seal. Kitted with lag bolts, sealant, and hardware for maximum convenience. Don't just divert water, **LOC** it out!





PROTECT THE ROOF Install a high-strength waterproof attachment without lifting, prying or damaging shingles.



With an outer shield <u>1</u> contour-conforming gasket 2 and pressurized sealant chamber 3 the Triple Seal to create a permanent pressure seal. technology delivers a 100% waterproof connection.



HIGH-SPEED INSTALL Simply drive lag bolt and inject sealant into the port 4

FLASH LOC **INSTALLATION GUIDE**











Snap chalk lines for attachment rows. On shingle roofs, snap lines 1-3/4" below upslope edge of shingle course. Locate rafters and mark attachment locations.

At each location, drill a 7/32" pilot hole. Clean roof surface of dirt, debris, snow, and ice. Next, BAGKFILL ALL PILOT HOLES WITH SEALANT.

NOTE: Space mounts per racking system install specifications.

STEP 1: SECURE

Place FLASHLOC over pilot hole with lag on down-slope side. Align indicator marks on sides of mount with chalk line. Pass included lag bolt and sealing washer through FLASHLOC into pilot hole. Drive lag bolt until mount is held firmly in place.

NOTE: The EPDM in the sealing washer will expand beyond the edge of the metal washer when proper torque is applied.

STEP 2: SEAL

Insert tip of UNIRAC provided sealant into port. Inject until sealant exits both vents.

Continue array installation, attaching rails to mounts with provided T-bolts.

NOTE: When FLASHLOC is installed over gap between shingle tabs or vertical joints, fill gap/joint with sealant between mount and upslope edge of shingle course.

USE ONLY UNIRAC APPROVED SEALANTS: Chemlink Duralink 50, Chemlink M-1, Geocel 4500, or Geocel S-4

FASTER INSTALLATION. 25-YEAR WARRANTY.

FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC.COM OR CALL (505) 248-2702

FASTER INSTALLATION. 25-YEAR WARRANTY.

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REVISIONS	
	REV
Signature with Seal	
	EMAIL ID: Elvisluissantos11@gmail.com
SHEET NAME EQUIPMENT	
SPECIFICATIO	N
ANSI B 11" X 17"	
SHEET NUMBER	

SOLARMOUNT

END CAPS

SOLARMOUNT defined the standard in solar racking. Features are designed to get installers off the roof faster. Our grounding & bonding process eliminates copper wire and grounding straps to reduce costs. Systems can be configured with standard or light rail to meet your design requirements at the lowest cost possible. The superior aesthetics package provides a streamlined clean edge for enhanced curb appeal, with no special brackets required for installation.





LOSE ALL OF THE COPPER & LUGS SMALL IS THE NEXT NEW BIG THING ENHANCED DESIGN & LAYOUT TOOLS System grounding through Enphase microinverters and trunk cables

Light Rail is Fully Compatible with all SM Components

FRONT TRIM



Featuring Google Map Capabilities within U-Builder

FAST INSTALLATION. SUPERIOR AESTHETICS

OPTIMIZED COMPONENTS • VERSATILITY • DESIGN TOOLS • QUALITY PROVIDER

SOLARMOUNT

OPTIMIZED COMPONENTS

ONE PRODUCT - MANY APPLICATIONS

to outperform your projects financial and aesthetic aspirations

AUTOMATED DESIGN TOOI DESIGN PLATFORM AT YOUR SERVICE

need to print results and send to a distributor, just click and share

management clip for an easier installation

VERSATILITY

INTEGRATED BONDING & PRE-ASSEMBLED PARTS

nts are pre-assembled and optimized to reduce installation steps and save

abor time. Our new grounding & bonding process eliminates copper wire and grounding

straps or bonding jumpers to reduce costs. Utilize the microinverter mount with a wire

Quickly set modules flush to the roof or at a desired tilt angle. Change module

orientation to portrait or landscape while securing a large variety of framed modules on

flat, low slope or steep pitched roofs. Available in mill, clear and dark anodized finishes

Creating a bill of materials is just a few clicks away with U-Builder, a powerful online

tool that streamlines the process of designing a code compliant solar mounting system.

Save time by creating a user profile, and recall preferences and projects automatically when you log in. You will enjoy the ability to share projects with customers; there's no



MICROINVERTER MOUNT w/



UNIRAC CUSTOMER SERVICE MEANS THE HIGHEST LEVEL OF PRODUCT SUPPORT



Unitac's technical support team is dedicated to answering

TECHNICAL SUPPORT

library of



engineering reports





CERTIFIED QUALITY PROVIDER

Unirac is the only PV mounting vendor with ISO certifications for 9001:2015, 14001:2015 and OHSAS <u>18001:2007.</u> highest standards for fit

PROTECT YOUR REPUTATION WITH OUALITY RACKING SOLUTIONS BACKED BY ENGINEERING EXCELLENCE AND A SUPERIOR SUPPLY CHAIN

