## PROJECT DESCRIPTION: 14 X 400 HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400 MODULES ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES SYSTEM SIZE:5.60 kW DC STC ARRAY AREA: ROOF#1 - 295.68 SQ FT **EQUIPMENT SUMMARY** HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400 MODULES GENERAC PV LINK S2502 POWER OPTIMIZERS GENERAC PWRCELL XVT076A03 (7.6KW) INVERTER

PV-1

SCALE: 1/25" = 1'-0"

APPLICABLE CODES & STANDARDS NORTH CAROLINA RESIDENTIAL CODE 2018 NEC 2017

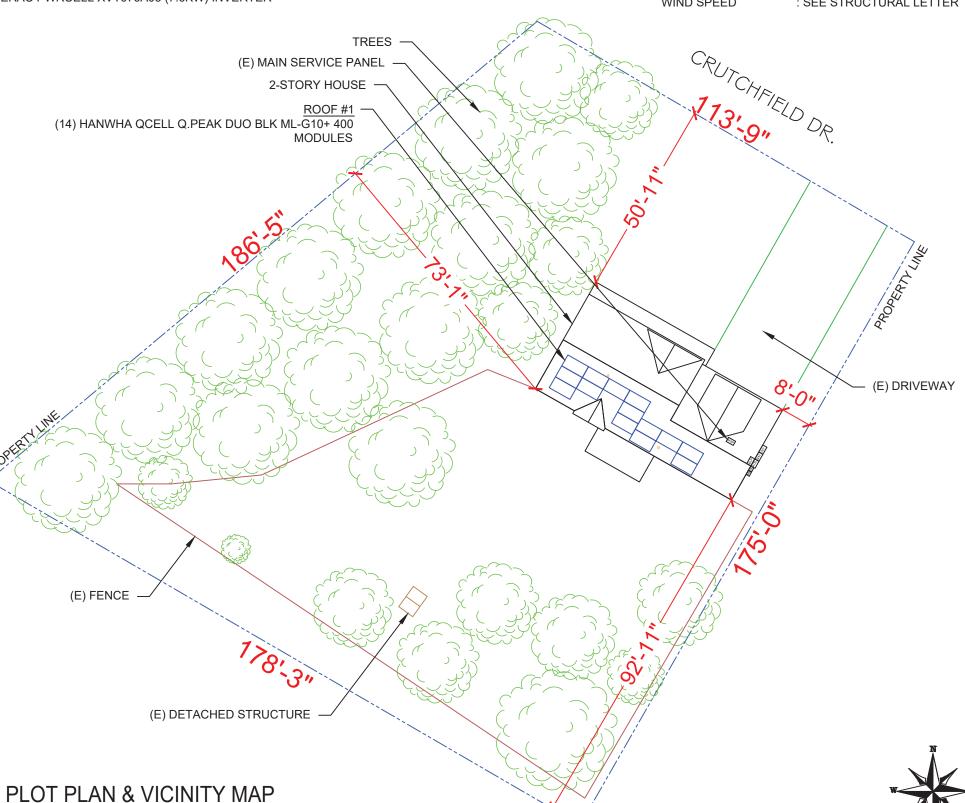
AUTHORITIES HAVING JURISDICTION BUILDING: HARNETT COUNTY : HARNETT COUNTY ZONING

UTILITY : CENTRAL ELECTRIC MEMBERSHIP CORP.

**DESIGN SPECIFICATIONS** OCCUPANCY

CONSTRUCTION : SINGLE-FAMILY : RESIDENTIAL ZONING

GROUND SNOW LOAD: SEE STRUCTURAL LETTER : SEE STRUCTURAL LETTER WIND EXPOSURE WIND SPEED : SEE STRUCTURAL LETTER







SHEET INDEX

PV-1

PV-1 PLOT PLAN & VICINITY MAP PV-2 **ROOF PLAN & MODULES** PV-2A STRING LAYOUT PV-3 ATTACHMENT DETAIL PV-4 ELECTRICAL LINE DIAGRAM PV-5 WIRING CALCULATIONS PV-6 to 12 EQUIPMENT SPECIFICATIONS

**VICINITY MAP** 



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PROJECT NAME BANDORES

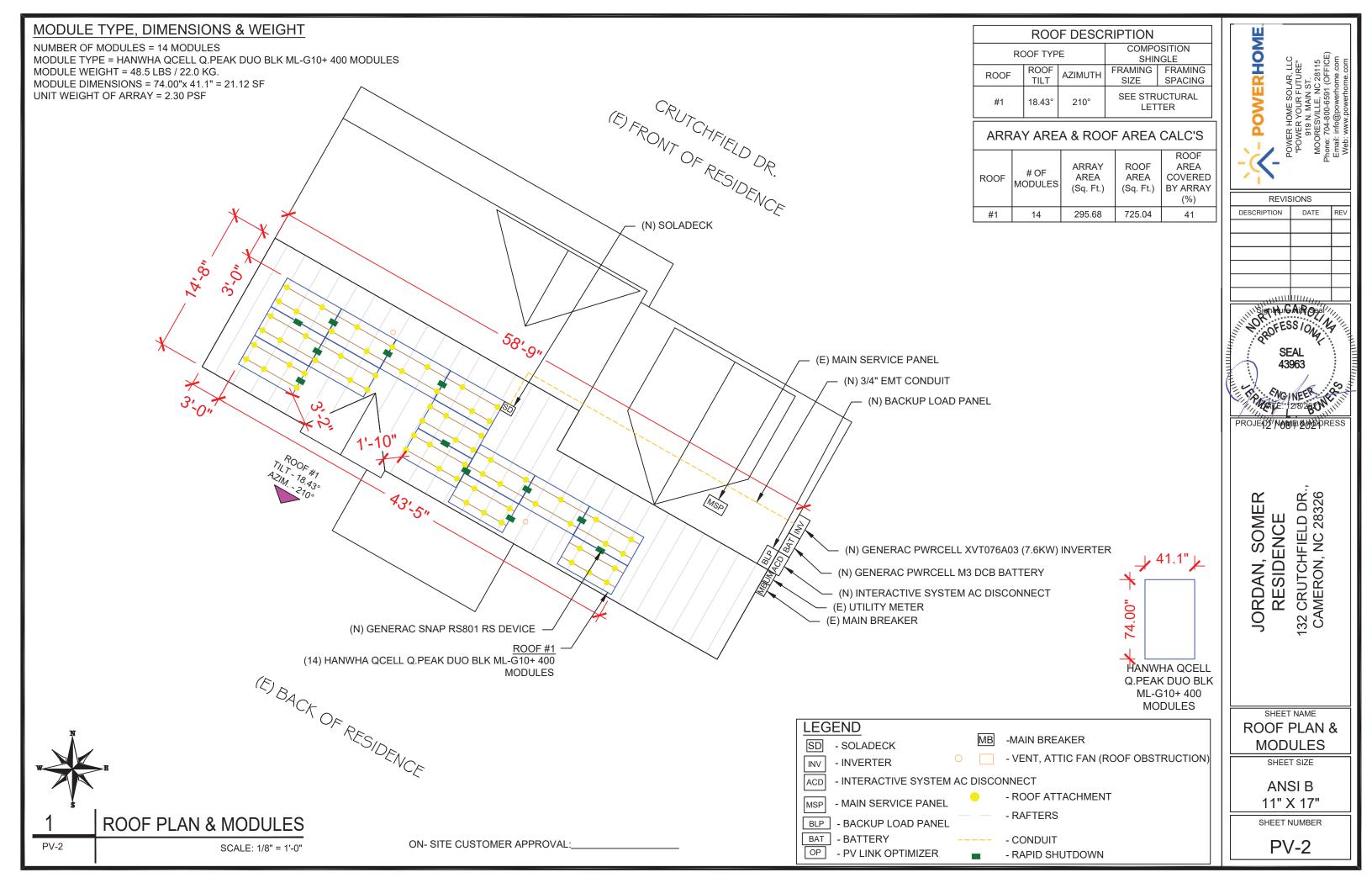
SOMER 132 CRUTCHFIELD DR. CAMERON, NC 28326 RESIDENCE JORDAN,

SCALE: NTS

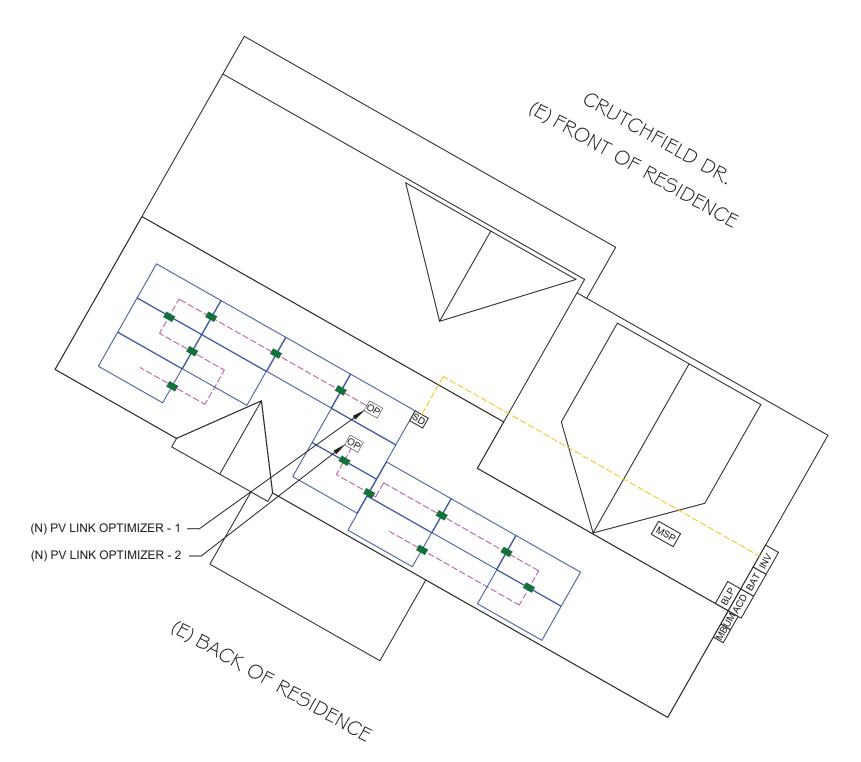
SHEET NAME **PLOT PLAN & VICINITY MAP** SHEET SIZE

> **ANSIB** 11" X 17"

SHEET NUMBER







BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULE	14	HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400 MODULES
OPTIMIZER	02	GENERAC PV LINK S2502 POWER OPTIMIZERS
GENERAC SNAP RS	14	GENERAC SNAPRS MODEL RS801
INVERTER	01	GENERAC PWRCELL XVT076A03 (7.6KW) INVERTER
INTERACTIVE SYSTEM AC DISCONNECT	1	60A FUSED, (2) 40A FUSES, 240V, NEMA 3R, UL LISTED
SOLADECK	1	SOLADECK 600 V, NEMA 3R UL LISTED
BATTERY	1	GENERAC PWRCELL OR M3 DCB BATTERY
BACKUP PANEL	1	125A, BACKUP PANEL, 240V
RAILS	14	QRAIL LIGHT 14 FT. BLACK
SPLICE KIT	4	QSPLICE INTERNAL LIGHT
WEEB BMC	20	WEEB BMC MILL
MODULE CLAMPS	12	UNIVERSAL MID CLAMP
GROUNDING LUG	8	WEEB LUG W/ T-BOLT
END CLAMPS	32	UNIVERSAL END CLAMPS
ATTACHMENT	64	L-MOUNT ATTACHMENT (QUICKMOUNT)
T-BOLT	66	T-BOLT W/ NUT M8 X 20MM

POWER HOME SOLAR, LLC
"POWER YOUR FUTURE"
919 N. MAIN ST.
MOORESVILLE, NC 28115
Phone: 704-800-6591 (OFFICE)
Email: info@powerhome.com
Web: www.powerhome.com

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JORDAN, SOMER RESIDENCE 132 CRUTCHFIELD DR., CAMERON, NC 28326

SHEET NAME **STRING** LAYOUT

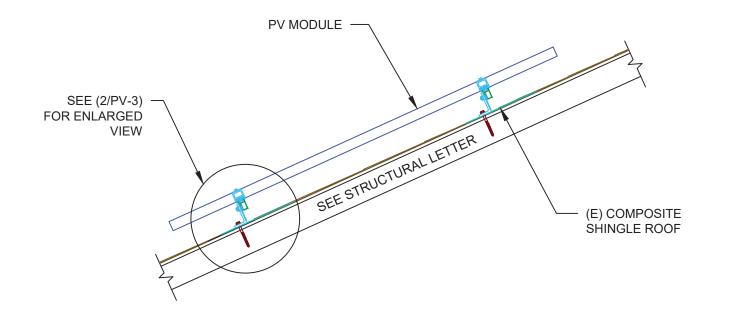
SHEET SIZE

ANSI B 11" X 17"

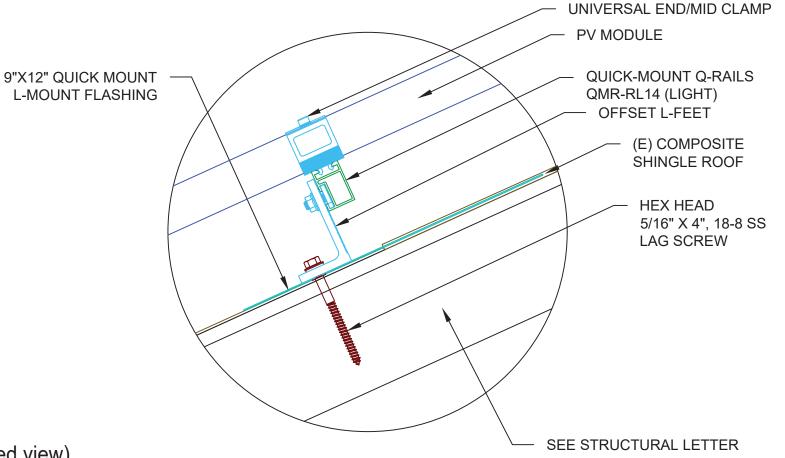
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PV-2A

ROOF PLAN WITH STRING LAYOUT PV-2A SCALE: 1/8" = 1'-0"



ATTACHMENT DETAIL SCALE: 1" = 1'-0" PV-3



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132 CRUTCHFIELD DR., CAMERON, NC 28326 JORDAN, SOMER RESIDENCE

SHEET NAME ATTACHMENT DETAIL

SHEET SIZE

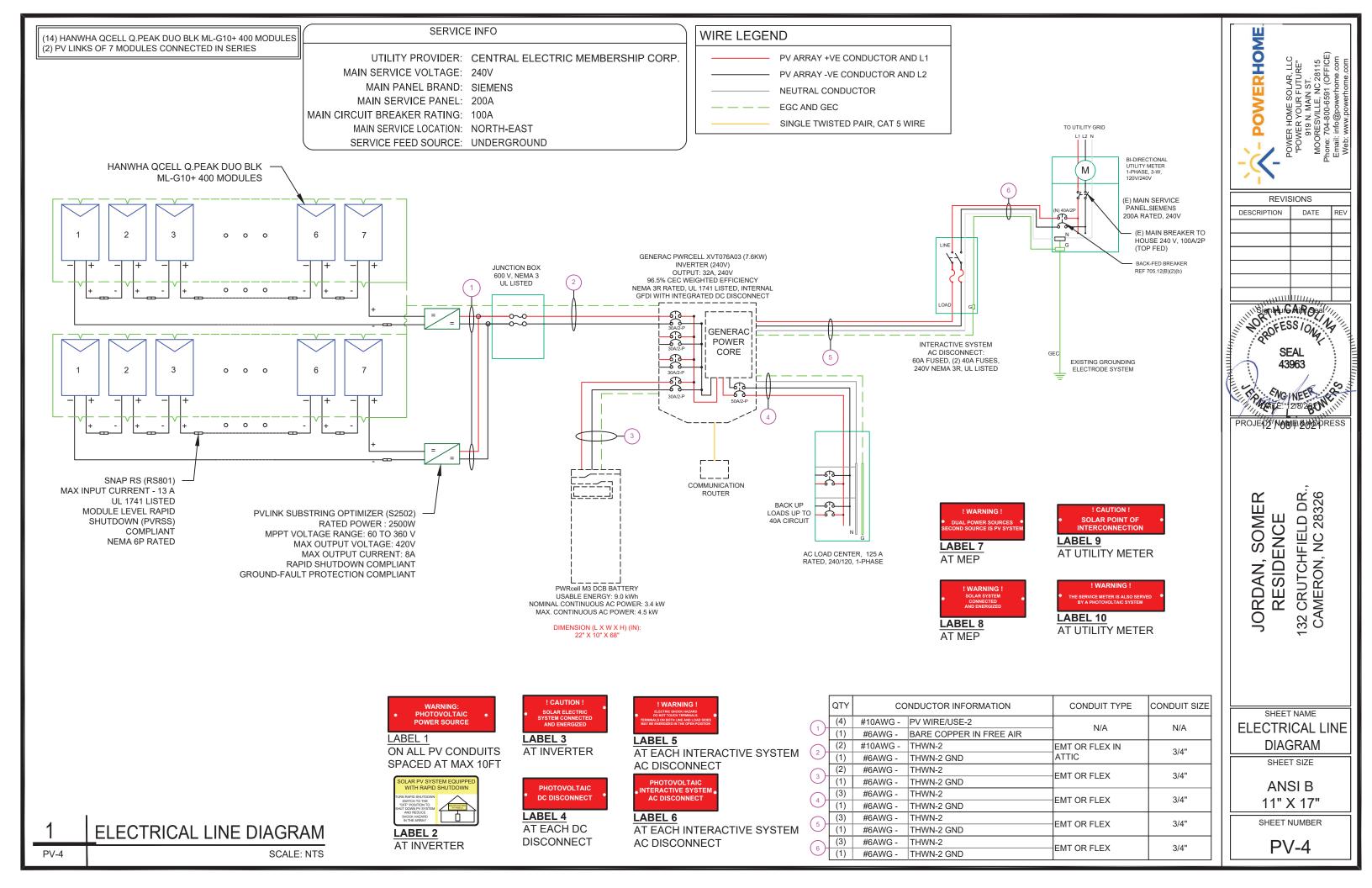
ANSI B 11" X 17"

SHEET NUMBER

PV-3

\_ATTACHMENT DETAIL (enlarged view)

SCALE: NTS



SOLAR MODULE SPECIFICATIONS		
MANUFACTURER / MODEL #	HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400	
VMP	37.13V	
IMP	10.77A	
VOC	45.30V	
ISC	11.14A	
TEMP. COEFF. VOC	-0.27%/°C	
PTC RATING	376.56W	
MODULE DIMENSION	74.00"L x 41.1"W x 1.26"D (In Inch)	

INVERTER SPECIFICATIONS		
MANUFACTURER / MODEL #	GENERAC PWRCELL XVT076A03 (7.6KW)	
AC POWER OUTPUT (LOADS/GRID)	7600VA	
AC POWER OUTPUT (BACKUP)	8000VA	
NOMINAL OUTPUT VOLTAGE	240 VAC	
MAX OUTPUT CURRENT @240V (LOADS/GRID)	32A	
MAX OUTPUT CURRENT @240V (BACKUP)	50A	
NOMINAL DC INPUT VOLTAGE	380Vdc	
MAX DC INPUT VOLTAGE	420Vdc	
CEC WEIGHTED EFFICIENCY	96.5%	
MAX DC POWER (PV)	10000W	
MAX INPUT CURRENT (PV)	20Adc	
CONT. PEAK POWER (BATTERY)	8000W	

SERIES SUB STRING OPTIMIZER SPECIFICATIONS		
MANUFACTURER / MODEL #	PV LINK S2502	
RATED POWER	2500W	
MPPT VOLTAGE RANGE	60-360 Vmp	
MAXIMUM INPUT VOLTAGE	420Voc	
MAXIMUM OUTPUT	420 Adc	
NOMINAL OUTPUT	380 Vdc	
MAXIMUM OUTPUT CURRENT	8 A	
MAXIMUM SHORT CIRCUIT CURRENT	18 A	

BATTERY SPECIFICATIONS		
MANUFACTURER / MODEL #	GENERAC PWRCELL OR M3 DCB BATTERY	
USABLE ENERGY	9.0kWH	
NOMINAL CONTINUOUS AC POWER	3.4kW	
MAX. CONTINUOUS AC POWER	4.5kW	
PEAK MOTOR STARTING CURRENT (2 SEC)	25A	
REBUS VOLTAGE: INPUT/ OUTPUT	360-420Vdc	
NOMINAL VOLTAGE	43.20Vdc	
ROUND-TRIP EFFICIENCY	96.5%	
ELECTRICAL NOTES	·	

AMBIENT TEMPERATURE SPECS		
RECORD LOW TEMP	-19°	
AMBIENT TEMP (HIGH TEMP 2%)	34°	
CONDUIT HEIGHT	0.5"	
ROOF TOP TEMP	56°	

### DC CONDUCTOR AMPACITY CALCULATIONS: PV LINK OPTIMIZER TO JUNCTION BOX:

56°
0.71
4
0.8
10 AWG
40A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	10A
1.25 X Imax	TUA
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	22.72A

Result should be greater than (10A) otherwise less the entry for circuit conductor size and ampacity

#### FROM JUNCTION BOX TO INVERTER:

EXPECTED WIRE TEMP (In Celsius)	56°
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	2
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	40A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	20A
1.25 X Imax X # of PV LINKS	20A
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	28.4A

Result should be greater than (20A) otherwise less the entry for circuit conductor size and ampacity

#### ELECTRICAL NOTES

- 1.) ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2.) ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3.) WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4.) WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5.) DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6.) WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY
- 7.) ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8.) MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9.) MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- 10.) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE

#### FROM BATTERY TO INVERTER:

EXPECTED WIRE TEMP (In Celsius)	34°
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	2
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE310.15(B)(16)	40A
( // /	1

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	31 25A
1.25 X Imax (= 25A)	31.25A
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	38.40A

Result should be greater than (31.25A) otherwise less the entry for circuit conductor size and ampacity

### AC CONDUCTOR AMPACITY CALCULATIONS: FROM INVERTER TO BACK-UP PANEL:

No. OF INVERTER	1
EXPECTED WIRE TEMP (In Celsius)	34°
TEMP. CORRECTION PER NEC TABLE 310.15(B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	6 AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	75A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	42 5A
1.25 X INVERTER OUTPUT CURRENT (BACKUP POWER)	42.5A
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	72A

Result should be greater than (42.5A) otherwise less the entry for circuit conductor size and ampacity

## AC CONDUCTOR AMPACITY CALCULATIONS: FROM INVERTER TO MEP:

No. OF INVERTER	1
EXPECTED WIRE TEMP (In Celsius)	34°
TEMP. CORRECTION PER NEC TABLE 310.15(B)(2)(a)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	1
CIRCUIT CONDUCTOR SIZE	6 AWG
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE 310.15(B)(16)	75A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B	) 40A
1.25 X MAX INVERTER OUTPUT CURRENT (LOADS/GRID)	40A
DERATED AMPACITY OF CIRCUIT CONDUCTOR	
TEMP. CORRECTION PER TABLE 310.15 (B)(2)(a) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(3)(a) X CIRCUIT CONDUCTOR AMPACITY 310.15 (B)(16)	72A

Result should be greater than (40A) otherwise less the entry for circuit conductor size and ampacity



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JORDAN, SOMER RESIDENCE 132 CRUTCHFIELD DR. CAMERON, NC 28326

SHEET NAME
WIRING
CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

## Q.PEAK DUO BLK ML-G10+ 385-405

**ENDURING HIGH** PERFORMANCE









#### **BREAKING THE 20% EFFICIENCY BARRIER**

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.9%.



#### THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY

Q CELLS is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new "Quality Controlled PV" of the independent certification institute TÜV Rheinland.



#### INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



#### **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 aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



#### A RELIABLE INVESTMENT

Inclusive 25-year product warranty and 25-year linear performance warranty<sup>2</sup>.

<sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96h)

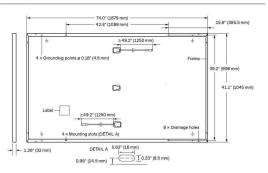
#### THE IDEAL SOLUTION FOR:





#### MECHANICAL SPECIFICATION

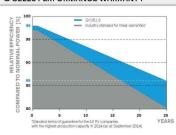
Format	74.0 in $ imes$ $41.1$ in $ imes$ $1.26$ in (including frame) (1879 mm $ imes$ $1045$ mm $ imes$ $32$ mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction Box	$2.09-3.98$ in $\times$ $1.26-2.36$ in $\times$ $0.59-0.71$ in $(53-101$ mm $\times$ $32-60$ mm $\times$ $15-18$ mm), IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥49.2 in (1250 mm), (-) ≥49.2 in (1250 mm)
Connector	Stäubli MC4: IP68



#### **ELECTRICAL CHARACTERISTICS**

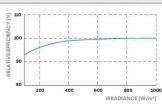
PΟ\	WER CLASS			385	390	395	400	405
MIN	IIMUM PERFORMANCE AT STANDA	RD TEST CONDITIO	NS, STC1 (PO	WER TOLERANCE +	5W/-0W)			
	Power at MPP <sup>1</sup>	P <sub>MPP</sub>	[W]	385	390	395	400	405
_	Short Circuit Current <sup>1</sup>	I <sub>sc</sub>	[A]	11.04	11.07	11.10	11.14	11.17
Minimum	Open Circuit Voltage <sup>1</sup>	V <sub>oc</sub>	[V]	45.19	45.23	45.27	45.30	45.34
/linir	Current at MPP	I <sub>MPP</sub>	[A]	10.59	10.65	10.71	10.77	10.83
2	Voltage at MPP	$V_{MPP}$	[V]	36.36	36.62	36.88	37.13	37.39
	Efficiency <sup>1</sup>	η	[%]	≥19.6	≥19.9	≥20.1	≥20.4	≥20.6
MIN	IIMUM PERFORMANCE AT NORMA	L OPERATING CONI	DITIONS, NMC	DT <sup>2</sup>				
	Power at MPP	P <sub>MPP</sub>	[W]	288.8	292.6	296.3	300.1	303.8
E	Short Circuit Current	I <sub>sc</sub>	[A]	8.90	8.92	8.95	8.97	9.00
Minimum	Open Circuit Voltage	Voc	[V]	42.62	42.65	42.69	42.72	42.76
Ž	Current at MPP	MPP	[A]	8.35	8.41	8.46	8.51	8.57
	Voltage at MPP	V <sub>MPP</sub>	[V]	34.59	34.81	35.03	35.25	35.46

#### Q CELLS PERFORMANCE WARRANTY



#### At least 98% of nominal power during degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to

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



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

MPERATURE COEFFICIENTS							
emperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
emperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

#### PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V <sub>SYS</sub>	[V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push / Pull <sup>3</sup>	[lbs/ft <sup>2</sup> ]	75 (3600 Pa)/55 (2660 Pa)	Permitted Module Temperature	-40°F up to +185°F
Max. Test Load, Push / Pull <sup>3</sup>	[lbs/ft <sup>2</sup> ]	113 (5400 Pa) / 84 (4000 Pa)	on Continuous Duty	(-40°C up to +85°C)

#### **QUALIFICATIONS AND CERTIFICATES**





$\overline{\Omega}$			No.
einland	Horizontal	76.4 in	4.
TIFIED	packaging	1940 mm	1100
uv.com			

			lb	O-O	40'HC	
76.4 in	43.3 in	48.0 in	1656 lbs	24	24	3.
940 mm	1100 mm	1220 mm	751 kg	pallets	pallets	module

PACKAGING INFORMATION

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

3 See Installation Manual

UL 61730, CE-compliant Quality Controlled PV - TÜV Rheinland IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells)

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

POWERHOME

DESCRIPTION DATE



SOMER 32 CRUTCHFIELD DR. CAMERON, NC 28326 RESIDENCE JORDAN,

**EQUIPMENT SPECIFICATION** 

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-6

Engineered in Germany

<sup>&</sup>lt;sup>2</sup> See data sheet on rear for further information.



PWRCELL

7.6kW 10/ PWRcell Inverter with CTs

Model #: XVT076A03 11.4 kW 3Ø PWRcell Inverter with CTs Model #: X11402 (Ordering SKU: APKE00013)

**GENERAC** 





Solar + storage is simple with the Generac PWRcell™ Inverter. This bi-directional, REbus™-powered inverter offers a simple, efficient design for integrating smart batteries with solar. Ideal for self-supply, backup power, zero-export and energy cost management, the PWRcell Inverter is the industry's most feature-rich line of inverters, available in single-phase and three-phase models.

#### **FEATURES & BENEFITS**

- Single inverter for grid-tied solar with smart battery integration
- Simplified system design: No autotransformer or battery inverter needed
- User-selectable modes for backup power, self-supply, time-of-use, zero-import and export limiting
- Free system monitoring included via PWRview<sup>™</sup> Web Portal and Mobile App

AC OUTPUT/GRID-TIE	MODEL XVT076A03	MODEL X11402
CONT. GRID-TIED AC POWER @ 50°C (122°F):	7600 W	11400 W
AC OUTPUT VOLTAGE:	120/240, 1Ø VAC	120/208, 3Ø VAC
AC FREQUENCY:	60 Hz	
MAXIMUM CONTINUOUS OUTPUT CURRENT:	32 A, RMS	
GROUND-FAULT ISOLATION DETECTION:	Included	
CHARGE BATTERY FROM AC:	Yes	
THD (CURRENT):	< 2%	
TYPICAL NIGHTTIME POWER CONSUMPTION <sup>T</sup> :	< 7 W	

DC INPUT	MODEL XVT076A03	MODEL X11402
DC INPUT VOLTAGE RANGE:	360-420	VDC
NOMINAL DC BUS VOLTAGE:	380 VD	С
DC DISTRIBUTION INPUT BREAKERS:	4 x 2P30	) A
MAX INPUT CURRENT PER DC INPUT:	30 A	
REVERSE-POLARITY PROTECTION:	Yes	
TRANSFORMERLESS, UNGROUNDED:	Yes	
DC BUS EXPORT FUSES (+/-):	40 A	
2-POLE DISCONNECTION:	Yes	

AC OUTPUT/ISLAND MODE	MODEL XVT076A03	MODEL X11402
MAX. CONT. AC POWER WHILE IN ISLAND MODE WITHOUT AN EXTERNAL TRANSFER SWITCH <sup>2</sup> :	7600 W	V
MAX. CONT. AC POWER WHILE IN ISLAND MODE W. EXTERNALTRANSFER SWITCH AND SINGLE 6 MODULE BATTERY CABINET <sup>3</sup> :	9000 W	
MAX. CONT. AC POWER WHILE IN ISLAND MODE W/EXTERNAL TRANSFER SWITCH AND 2 BATTERY CABINETS (8 MODULES MINIMUM) <sup>3</sup> :	11000 W	9600 W-11000 W*
PEAK MOTOR STARTING CURRENT (2 SEC):	50 A, RMS	
AC BACKUP OUTPUT VOLTAGE:	120/240, 1Ø VAC	120/208, 1Ø VAC
AC FREQUENCY:	60 Hz	
THD (VOLTAGE):	< 2%	
ALLOWABLE SPLIT PHASE IMBALANCE:	Up to 30%	

2-POLE DISCONNECTION:	Yes		
EFFICIENCY	MODEL XVT076A03	MODEL X11402	
PEAK EFFICIENCY:	97.3%	97.7%	
CEC WEIGHTED EFFICIENCY:	96.5%	97.5%	

<sup>1</sup>Nighttime power consumption depends on the system mode
<sup>2</sup>In Island Mode, continuous power output is restricted to 7.6kW unless backup power
is routed through an external transfer switch in a whole home backup application.
<sup>3</sup>Peak performance, values provided for 40°C (104°F).
<sup>4</sup>In Island mode X11402 protected loads only supply 2 phases 120 VAC L-N, 208 L-L
which results in lower power than in a grid tied 3 phase state. The low value of the

range is for full L-L loading while high value of the range is full L-N loading

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## Specifications .....

FEATURES AND MODES		
ISLAND MODE <sup>4</sup> :	Yes	
GRID SELL:	Yes	
SELF CONSUMPTION:	Yes	
PRIORITIZED CHARGING FROM RENEWABLES:	Yes	
GRID SUPPORT - ZERO EXPORT:	Yes	
ESS PCS OPERATION MODES (IMPORT ONLY, EXPORT ONLY):	Yes	

ADDITIONAL FEATURES		
SUPPORTED COMMUNICATION INTERFACES:	REbus™, CANbus, Ethernet	
SYSTEM MONITORING:	PWRview™ Web Portal and Mobile App	
BACKUP LOADS DISCONNECT <sup>4</sup> :	Yes, 50 A Circuit Breaker	
INVERTER BYPASS SWITCH:	Automatic	
WARRANTY:	10 Years	

STANDARDS COMPLIANCE	
SAFETY:	UL 1741 SA, CSA 22.2 #107.1, UL 1998
GRID CONNECTION STANDARDS:	IEEE 1547, Rule 21, Rule 14H (HECO V1.1), CSIP, UL 1741 PCS CRD (Import Only, Export Only)
EMISSIONS:	FCC Part 15 Class B

DIMENSIONS AND INSTALLATION SPECIFICATIONS		
ENCLOSURE KNOCKOUTS - QTY, SIZE - IN (MM):	6 x Combo 3/4" x 1" (19 x 25.4) 7 x Combo 1/2" x 3/4" (12.7 x 19)	1 x 0.575" exclusively for optional LTE antenna mounting
DIMENSIONS L x W x H - IN (MM): 24.5" x 19.25" x 8" (622.3 x 488.9 x 203.2)		03.2)
WEIGHT - LB (KG):	62.7 (28.4)	
COOLING:	Forced convection	
AUDIBLE NOISE:	< 40 dBA	
OPERATING TEMPERATURE:	-4 to 122 °F (-20 to 50 °C) <sup>5</sup>	
ENCLOSURE TYPE:	Type 3R	

INSTALLATION GUIDELINES	
BATTERY TYPES SUPPORTED:	PWRcell™ Battery
MODULE SUBSTRING SIZE PER PV LINK OPTIMIZER:	Varies, refer to PV Link Installation Manual
MAXIMUM RECOMMENDED DC POWER FROM PV6:	10 kW (1Ø), 15 kW (3Ø)

<sup>&</sup>lt;sup>4</sup>3Ø inverters offer backup for [single phase] 208 V loads.

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PROJECT NAME & ADDRESS

JORDAN, SOMER RESIDENCE 132 CRUTCHFIELD DR., CAMERON, NC 28326

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

 $<sup>^5</sup>$ Includes ambient temperature rising from inverter operation. Reduced power at extreme temperatures.

<sup>6</sup> Values provided for PV-only or small storage systems. Additional PV power is permissible if sufficient battery storage capacity is installed.





## **SnapRS**<sup>TM</sup>

Inline Disconnect Switch
Model #: RS801 (Ordering SKU: APKE00011)



Generac SnapRS are a simple way to satisfy rapid shutdown compliance for solar + storage systems. Generac SnapRS are 2017/2020 NEC 690.12 compliant, don't require any extra hardware to mount, and need no pairing or fussy digital communications.

#### **FEATURES & BENEFITS**

- · Fast, easy, and simple to install
- One SnapRS device per PV module
- Achieves PVRSS Compliance
- · Low cost, high efficiency solution

#### SYSTEM DESIGN

Snap a Generac SnapRS disconnect device (RS) to the negative lead (-) of each module in the solar array for simple module-level rapid shutdown compliance. SnapRS devices isolate array voltage when a rapid shutdown is initiated at a PWRcell™ Inverter. When rapid shutdown is initiated, SnapRS units isolate each PV module in the array, reducing array voltage to <80V in seconds.

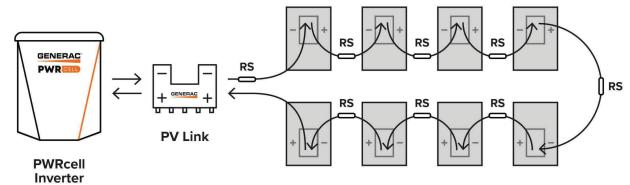


Diagram is applicable for most 60 cell PV modules. Modules with higher cell count may require a different arrangement. Contact Generac for more details.

## Specifications

SnapRS™ (APKE00011)	
PV MODULE MAX VOC:	75 V
EFFICIENCY:	99.8%*
MAX INPUT CURRENT:	13 A
MAX TOTAL QTY IN SUBSTRING:	10
SHUTDOWN TIME:	< 10 Seconds
ENCLOSURE RATING:	NEMA 6P
OPERATING TEMPERATURE - FAHRENHEIT (CELSIUS):	-40 to 158 °F (-40 to 70 °C)
CERTIFICATIONS:	ÜL1741
PROTECTIONS:	PVRSE
WEIGHT - LB (KG):	0.17 (0.08)
DIMENSIONS, L x W x H - IN (MM):	7" x 1" x 1" (177.8 x 25.4 x 25.4)
WARRANTY:	25 Years

<sup>\*</sup>When used with a 50V panel

Connect one SnapRS device to the negative lead of each PV module in the PV Link controlled array for complete PV Rapid shutdown performance



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ANSI B 11" X 17"

SHEET NUMBER





#### GENERAC

## PWR CELL

#### 3.0kWh DCB BATTERY MODULE

3.0kWh PWRcell DCB Battery Module Model #: BJ-DCB05ZKBG (Ordering SKU: G0080040)

Build a better backup system with the Generac DCB Battery Module for PWRcell™. Add capacity and backup power with as few as three or as many as six modules. Upgrade a PWRcell Battery post-installation with the addition of more DCB modules for more power and capacity.

#### **FEATURES & BENEFITS**

- Suitable for indoor and outdoor cabinets
- Modular: Stack the right number of battery modules for the application
- Upgradeable: Add more modules later when consumer needs change
- Easy to install: At just 55lbs, installers won't need special equipment to move and install these batteries

SPECIFICATIONS	
NOMINAL VOLTAGE:	46.8 VDC
USABLE CAPACITY @ TYPICAL VOLTAGE:	3.00 kWh
MAXIMUM AMBIENT OPERATING TEMPERATURE:	14 to 122 °F (-10 to 50 °C)
OPTIMAL AMBIENT OPERATING TEMPERATURE:	41 to 104 °F (5 to 40 °C)
STORAGE TEMPERATURE RANGE:	68 °F (20 °C)
SCALABILITY:	3-6 pcs in series
DIMENSIONS, L x W x H - IN (MM):	17.3" × 17.7" × 3.3" (440 × 450 × 84)
WEIGHT - LB (KG):	55 (25)
BATTERY CHEMISTRY:	Lithium Nickel Manganese Cobalt (NMC)
WARRANTY:	10 years or 7.56MWh Throughput (per module)
Note: Charge/discharge rate may be reduced at temperature extremes	

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### **Specifications**

PWRcell™ BATTERY CONFIGURATIONS				
BATTERY MODULE SERIES:		3.0 kWh DCB	/ 3.0 kWh EX	
BATTERY MODULES:	3	4	5	6
USABLE ENERGY:	9 kWh	12 kWh	15 kWh	18 kWh
NOMINAL CONT. AC POWER1:	3.4 kW	4.5 kW	5.6 kW	6.7 kW
MAX. CONT. AC POWER <sup>2</sup> :	4.5 kW	6 kW	7.5 kW	9 kW
NOMINAL CONT. DC (CHARGE/DISCHARGE) - A:	11.6	15.5	19.4	23.3
PEAK MOTOR STARTING CURRENT (2 SEC) - A, RMS:	25	33	42	50
REbus™ VOLTAGE - INPUT/OUTPUT:		360-42	0 VDC	
NOMINAL VOLTAGE:		380 \	/DC	
DC-DC ROUND-TRIP EFFICIENCY:	96.5%			
MAXIMUM AMBIENT OPERATING TEMPERATURE:	14 TO 122 °F (-10 TO 50 °C)			
OPTIMAL AMBIENT OPERATING TEMPERATURE:	41 to 104 °F (5 to 40 °C)			
MAXIMUM INSTALLATION ALTITUDE - FT (M):	9834 (3000)			
DIMENSIONS, L x W x H - IN (MM):	22" × 10" × 68" (559 × 254 × 1727)			
WEIGHT, ENCLOSURE - LB (KG):		115 (	52)	
WEIGHT, INSTALLED W/ DCB MODULES - LB (KG):	280 (127)	335 (152)	390 (177)	445 (202)
WEIGHT, INSTALLED W/ EX MODULES - LB (KG):	287 (130)	344 (156)	401 (182)	459 (208)
WEIGHT, ACCESSORY MOUNTING HARDWARE - LB (KG):	21 (10)			
ENCLOSURE TYPE:	Type 3R			
WARRANTY - LI-ION MODULES:	10 Years, (7.56MWh)			
WARRANTY - ELECTRONICS AND ENCLOSURE:	10 Years			
COMMUNICATION PROTOCOL:	REbus™ DC Nanogrid™			
SEISMIC RATING:		IEEE 693-20	018 (HIGH)	
COMPLIANCE:	UL 9540, UL 1973, UL 1642, CSA 22.2 #107.1			

 ${}^{1}\!Average~AC~power~over~a~complete~discharge~cycle.~I~^{2}\!Peak~Performance,~values~provided~for~40°C~(104°F).} Note:~Charge/discharge~rate~may~be~reduced~at~temperature~extremes$ 

#### **PWRcell ACCESSORIES**

Inside of the PWRcell Battery Cabinet, battery modules are stacked two deep on three levels, allowing for up to six modules to be connected in series. You can upgrade an existing PWRcell Battery Cabinet by adding Battery Modules and a Module Spacer (APKE00008). A Module Spacer is only required for battery configurations with an odd number of modules (i.e. 3 or 5).

Generac offers a convenient PWRcell Battery Upgrade Kit (APKE00009) to help replace lost or misplaced hardware.

Note: When adding modules, be sure all modules within an individual cabinet are of the same series type (i.e., EX or DCB).

#### **PWRcell MODEL BUILDER**

PRODUCT SERIES	> ENCLOSURE TYPE	# OF MODULES	$\rangle$	BATTERY SERIES
PWRcell	OR	M3		DCB
		<u> </u>		<b>T</b>
	IR (Indoor Rated)	3 Modules		DCB
	OR (Outdoor Rated)	4 Modules		EX
		5 Modules		
		6 Modules		

Sample Model Name: PWRcell OR M3 DCB

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JORDAN, SOMER RESIDENCE 132 CRUTCHFIELD DR., CAMERON, NC 28326

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SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



PWRcell Outdoor Rated Battery Cabinet (Ordering SKU: APKE00028) 3.0kWh PWRcell DCB Battery Module Model #: BJ-DCB05ZKBG (Ordering SKU: G0080040)

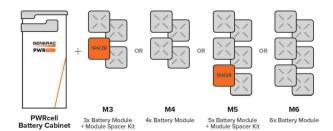
3.0kWh PWRcell EX Battery Module

The PWRcell™ Outdoor Rated (OR) Battery Cabinet is a Type 3R smart battery enclosure that allows for a range of configurations to suit any need, small or large, indoor or outdoor. No other smart battery offers the power and flexibility of PWRcell.

#### **PWRcell BATTERY CABINET DESIGN**

The PWRcell Battery Cabinet allows system owners the flexibility to scale from an economical 9kWh to a massive 18kWh by installing additional battery modules to the PWRcell Battery Cabinet. An existing PWRcell Battery Cabinet can be upgraded with additional modules. Use the graphic below and the chart on the back of this sheet to understand what components you need for your chosen PWRcell configuration.

#### **BATTERY CONFIGURATION GUIDE**

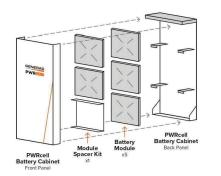




#### **FEATURES & BENEFITS**

- Connect 2 PWRcell Battery Cabinets to a single PWRcell Inverter for up to 36kWh of storage
- Best-in-class battery backup power
- Plug-and-play with PWRcell Inverter and PV Link™
- Time-of-use (TOU) and zero-export ready
- · Residential and commercial application ready.
- 3R-rated cabinet allows for outdoor or indoor installation
- Additional mounting hardware for outdoor installations comes standard to provide additional ground clearance and support

#### **BATTERY CABINET ASSEMBLY**



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ANSI B 11" X 17"

SHEET NUMBER

PV-9A





## PV Link™

2500W MPPT Substring Optimizer Model #: S2502 (Ordering SKU: APKE00010)

PV Link is the simple solar optimizer for quick installation and long-lasting performance. Connect PV modules to each PV Link to overcome shading and challenging roof lines.

#### **FEATURES & BENEFITS**

- Fast, simple installation
- Lower failure risk than module-level optimizers
- 2017/2020 NEC rapid shutdown compliant with SnapRS™
- Quick connections with MC4 connectors
- Exports up to 2500W
- Compatible with PWRcell<sup>™</sup> Inverters
- Cost-effective solution for high-performance PV
- Ground-fault protection

#### SINGLE-STRING PV ARRAY WITH SnapRS DEVICES

Where PV module-level rapid shutdown is required (NEC 690.12), a SnapRS device (RS) is installed to negative (-) lead of each PV module.

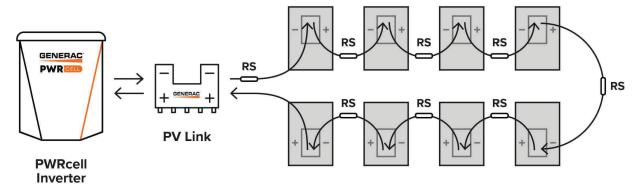


Diagram is applicable for most 60 cell PV modules. Modules with higher cell count may require a different arrangement. Contact Generac for more details.

## Specifications

<b>PV Link</b> ™ (APKE00010)	
RATED POWER*:	2500W
PEAK EFFICIENCY:	99%
MPPT VOLTAGE RANGE:	60-360 VMP
MAX INPUT VOLTAGE:	420 VOC; max when cold
MAX OUTPUT:	420 VOC
NOMINAL OUTPUT (REbus™):	380 VDC
MAX OUTPUT CURRENT (CONTINUOUS):	8 A
MAX OUTPUT CURRENT (FAULT):	10 A
MAX INPUT CURRENT (CONTINUOUS):	13 A @ 50°C, 10 A @ 70°C
MAX INPUT SHORT CIRCUIT CURRENT (ISC):	18 A
STANDBY POWER:	<1 W
PROTECTIONS:	Ground-fault, Arc-fault (Arc-fault Type 1 AFCI, Integrated), PVRSE
MAX OPERATING TEMP: FAHRENHEIT (CELSIUS)	158 °F (70 °C)
SYSTEM MONITORING:	PWRview™ Web Portal and Mobile App
ENCLOSURE:	Type 4X
WEIGHT - LB (KG):	7.3 lb (3.3 kg)
DIMENSIONS, L x W x H - IN (MM):	15.4" x 2" x 9.6" (391.2 x 50.8 x 243.8)
COMPLIANCE:	UL 1741, CSA 22.2
WARRANTY:	25 Years

\*PV Link can tolerate higher than rated power at its input if Max Input Voltage and Short Circuit Current specifications are not exceeded



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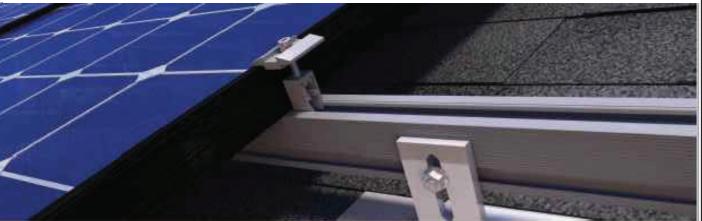
SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER





## QRail™ - Fully Integrated Mounting and Racking System

The QRail Series is a strong and versatile solar array mounting system that provides unrivaled benefits to solar designers and installers. Combined with Quick Mount PV's industry-leading waterproof mounts, QRail offers a

complete racking solution for mounting solar modules on any roof.



Easily design array configurations with the QD esign software application. Generate complete engineering reports and calculate a precise bill of materials for all the mounting, racking and accessories needed for a complete solar array.

### Comprehensive, One-Source Solution

QRail, together with Quick Mount PV's waterproof mounting products, provides the benefit of a single-sourced, seamlessly integrated rooftop installation that works with all roof types - composition/asphalt shingles, flat or curved tile, metal shingle, shake, slate and low slope roofs. The QRail system also works with any roof attachment system for maximum flexibility.

## Superior Strength and Versatility

QRail is engineered for optimal structural performance. The system is certified to UL 2703, fully code compliant and backed by a 25-year warranty. QRail is available in Light, Standard and Heavy versions to match all geographic locations. QRail is compatible with virtually all modules and works on a wide range of pitched roof surfaces. Modules can be mounted in portrait or landscape orientation in standard or shared-rail configurations.

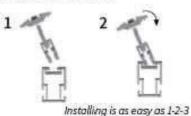


QRails come in two lengths -168 inches (14 ft) and 208 inches (17.3 ft) Mill and Black Finish

### Fast, Simple Installation: It Just Clicks

### **QClick Technology™**

The universal mid and end clamps use QClick technology to simply "click" into the rail channel and remain upright, ready to accept the module. The pre-assembled clamps fit virtually all module frames and require no extra hardware, eliminating pre-loading and reducing installation time.









2 clamps for modules from 30-45mm or 38-50mm thick



2 clamps for modules from 30-45mm or 38-50mm thick

### **QSplice** Technology

QRail's innovative internal QSplice installs in seconds, requiring no tools or screws. Simply insert QSplice into the rail and slide the other rail on to create a fully structural, bonded splice. An external splice is also available.







Installs in seconds - no tools or hardware required

## Fully Integrated Electrical Bonding

The QRail system provides an integrated electrical bonding path, ensuring that all exposed metal parts and the solar module frames are electrically connected. All electrical bonds are created when the components are installed and tightened down.

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PROJECT NAME & ADDRESS

32 CRUTCHFIELD DR. CAMERON, NC 28326 SOMER RESIDENCE JORDAN,

**EQUIPMENT SPECIFICATION** 

SHEET SIZE

ANSI B 11" X 17"

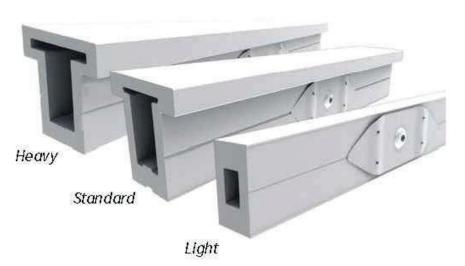
SHEET NUMBER

## QRail™ Configurations



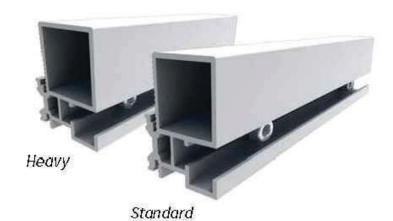
Item Code	Part Number	Description	Finish
QMR-RL14A60	800	QRail Light, 14 ft, 60 Pack	Mill
QMR-RL17.3 Å 60	801	QRail Light, 17.3 ft, 60 Pack	Mill
QMR-RL14B60	805	QRail Light, 14 ft, 60 Pack	Black
QMR-RL17.3 B 60	806	QRail Light, 17.3 ft, 60 Pack	Black
QMR-RS14 A 60	810	QRail Standard, 14ft., 60 Pack	Mill
QMR-RS17,3 A 60	811	QRail Standard, 17.3 ft, 60 Pack	Mill
QMR-RS14 B 60	815	QRail Standard, 14ft., 60 Pack	Black
QMR-RS17,3 B 60	816	QRail Standard, 17.3 ft, 60 Pack	Black
QMR-RH14A60	820	QRail Heavy, 14ft., 60 Pack	Mill
QMR-RH17.3 A 60	821	QRail Heavy, 17.3 ft, 60 Pack	Mill
QMR-RH14B60	825	QRail Heavy, 14ft, 60 Pack	Black
QMR-RH17.3 B 60	826	QRail Heavy, 17.3 ft, 60 Pack	Black

## OSplice™ Internal Structural Splice



Item Code	Part Number	Description	Finish
QMR-ISL A 15	830	QSplice Internal, Light, 15 Pack	Mill
QMR-ISS A 15	831	QSplice Internal, Standard, 15 Pack	Mill
QMR-ISH A 15	832	QSplice Internal, Heavy, 15 Pack	Mill

## OSplice™ External Structural Splice



Item Code	Part Number	Description	Finish
QMR-ESS A 15	834	QSplice External, Standard, 15 Pack	Mill
QMR-ESH A 15	835	QSplice External, Heavy, 15 Pack	Mill

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**EQUIPMENT SPECIFICATION** 

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

**PV-11A** 

## Universal End Clamp with QClick™ Technology



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Item Code	Part Number	Description	Finish
QMR-UEC3045A20	860	Universal End Clamp, 30-45mm, 20 Pack	Mill
QMR-UEC3850A20	861	Universal End Clamp, 38-50mm, 20 Pack	Mill
QMR-UEC3045 B 20	865	Universal End Clamp, 30-45mm, 20 Pack	Black
QMR-UEC3850 B 20	866	Universal End Clamp, 38-50mm, 20 Pack	Black
QMR-UEC3045BP A20	862	Universal End Clamp, 30-45mm, w/ Bonding, 20 Pack	Mill
QMR-UEC3850BP A 20	863	Universal End Clamp, 38-50mm, w/ Bonding, 20 Pack	Mill
QMR-UEC3045BP B 20	867	Universal End Clamp, 30-45mm, w/ Bonding, 20 Pack	Black
QMR-UEC3850BPB20	868	Universal End Clamp, 38-50mm, w/ Bonding, 20 Pack	Black

## Mid Clamp with QClick™ Technology



Item Code	Part Number	Description	Finish
QMR-UMC3045BP 1.2 A 20	872	Universal Mid Clamp, 30-45mm, w/ Bonding, 20 Pack	Mill
QMR-UMC3850BP 1.2 A 2 0	873	Universal Mid Clamp, 38-50mm, w/ Bonding, 20 Pack	Mill
QMR-UMC3045BP 1.2 B 20	877	Universal Mid Clamp, 30-45mm, w/ Bonding, 20 Pack	Black
QMR-UMC3850BP 1,2 B 20	878	Universal Mid Clamp,38-50mm, w/ Bonding, 20 Pack	Black

## Single-Slot L-Foot



Item Code	Part Number	Description	Finish
QMC-LF A12	692	Single-slot l-foot, 12 Pack	Mill
QMC-LF B 12	693	Single-slot L-foot, 12 Pack	Black

## **End Caps**



Item Code	Part Number	Description	Finish
QMR-CPL B 50	885	End Cap Light, 50 Pack	Black
QMR-CPS B 50	886	End Cap Standard, 50 Pack	Black
QMR-CPH B 50	887	End Cap Heavy, 50 Pack	Black

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**EQUIPMENT SPECIFICATION** 

ANSI B 11" X 17"

SHEET NUMBER

**PV-11B** 

## Grounding Lug



Item Code	Part Number	Description	Finish
QMR-GL A50	890	WEEB Lug w/ T-Bolt, 50 Pack	n/a

WEEB BMC



Item Code	Part Number	Description	Finish
QMR-ECWA 50	891	WEEB BMC, 50 Pack	stainless steel



Item Code	Part Number	Description	Finish
QMR-TB A 300	880	T-Boltw/ Nut, 300 Pack	stainless steel

Wire Clip



Works with both PV and Trunk Cabling

Item Code	Part Number	Description	Finish
QMR-WCA 300	892	Trunk/PV Cable, 300 Pack	stainless steel

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SHEET NAME **EQUIPMENT SPECIFICATION** 

> ANSI B 11" X 17"

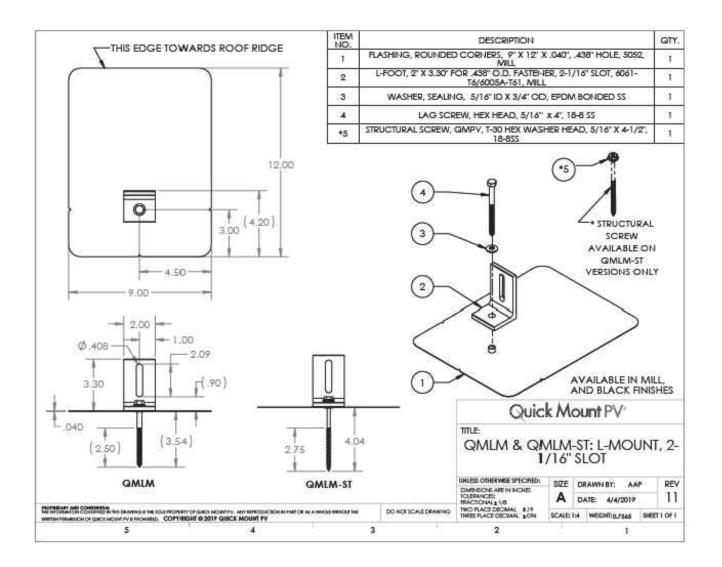
SHEET SIZE

SHEET NUMBER

**PV-11C** 

## L-Mount | QMLM / QMLM-ST

Elevated Water Seal Technology®





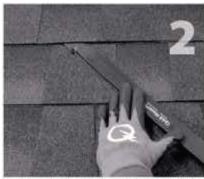
#### L-Mount Installation Instructions

Installation Tools Required: tape measure, roofing bar, chalk line, stud finder, caulking gun, sealant compatible with roofing materials, drill with 7/32" or 1/8" bit, drill or impact gun with 1/2" socket.

WARNING: Quick Mount PV products are NOT designed for and should NOT be used to anchor fall protection equipment.



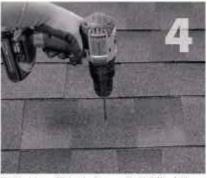
mounts will be placed.



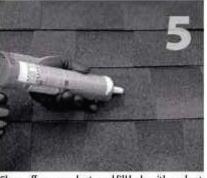
Locate, choose, and mark centers of rafters to be Carefully lift composition roof shingle with roofing Insert flashing between 1st and 2nd course. Slide sealant. See "Proper Flashing Placement" on next



mounted. Select the courses of shingles where bar, just above placement of mount. Remove up so top edge of flashing is at least 44" higher nails as required and backfill holes with aproved than the butt-edge of the 3rd course and lower flashing edge is above the butt-edge of 1st course. Mark center for drilling.

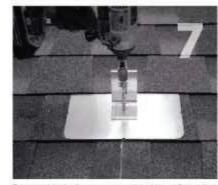


1/4" bit (ST) for attaching with the structural screw. compatible with roofing materials. Drill pilot hole into roof and rafter, taking care to drill square to the roof. Do not use mount as a drill guide. Drill a 2" deep hole into rafter.





If attaching with lag bolt use a 1/2 \* bit (Lag). Use a Clean off any sawdust, and fill hole with sealant Place L-foot onto elevated flute and rotate L-foot to desired orientation.



NOTE: Structural screw can be driven with T-30 hex BI 7.2.3-44



Prepare lag bolt or structural screw with sealing You are now ready for the rack of your choice. washer. Using a 1/2-inch socket on an impact gun, Follow all the directions of the rack manufacturer drive prepared lag bolt through L-foot until L-foot as well as the module manufacturer. NOTE: Make can no longer easily rotate. DO NOT over-torque. sure top of L-Foot makes solid contact with racking.

All roofing manufacturers' written instructions must also be followed by anyone modifying a roof system. Consult the roof manufacturer's specs and instructions prior to working on the roof.

Apr-2019 Rev 6

# - POWERHOME

REVISIONS		
DESCRIPTION	DATE	REV
<u>.</u>		

Signature with Seal

DATE: 12/8/2021

PROJECT NAME & ADDRESS

32 CRUTCHFIELD DR. CAMERON, NC 28326 JORDAN, SOMER RESIDENCE

**EQUIPMENT SPECIFICATION** 

SHEET SIZE

**ANSIB** 11" X 17"

SHEET NUMBER