







BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULE	21	HANWHA QCELL Q.PEAK DUO BLK-G6+ 340 MODULES
OPTIMIZER	03	GENERAC PV LINK S2502 POWER OPTIMIZERS
GENERAC SNAP RS	21	GENERAC SNAPRS MODEL RS801
INVERTER	01	GENERAC PWRCELL XVT076A03 (7.6KW) INVERTER
AC DISCONNECT	1	60A FUSED, (2) 40A FUSES, 240V, NEMA 3R, UL LISTED
SOLADECK	2	SOLADECK 600 V, NEMA 3R, UL LISTED
BATTERY	1	GENERAC PWRCELL 9 OR-M3-EX BATTERY
BACKUP PANEL	1	125A, BACKUP PANEL, 240V
RAILS	13	QRAIL LIGHT 14 FT. BLACK
SPLICE KIT	6	QSPLICE INTERNAL LIGHT
WEEB BMC	0	WEEB BMC MILL
MODULE CLAMPS	32	UNIVERSAL MID CLAMP
GROUNDING LUG	5	WEEB LUG W/ T-BOLT
END CLAMPS	20	UNIVERSAL END CLAMPS
ATTACHMENT	52	L-MOUNT ATTACHMENT (QUICKMOUNT)
T-BOLT	55	T-BOLT W/ NUT M8 X 20MM

- POWERHOME

REVISIONS			
DESCRIPTION	DATE	REV	

DATE: 6/17/2021

PROJECT NAME & ADDRESS

RANDALL LEE DIETERLE RESIDENCE 204 LAMPLIGHTER WAY, SPRING LAKE, NC 28390

SHEET NAME **STRING** LAYOUT

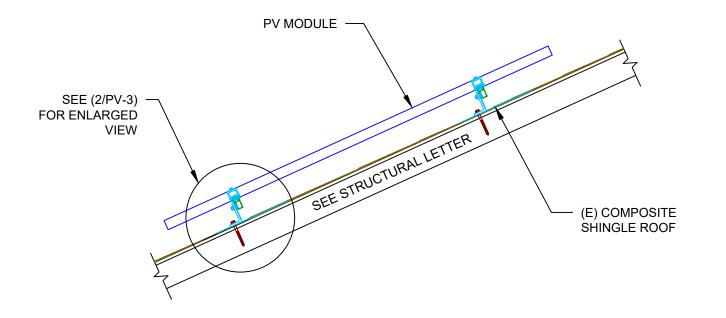
SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

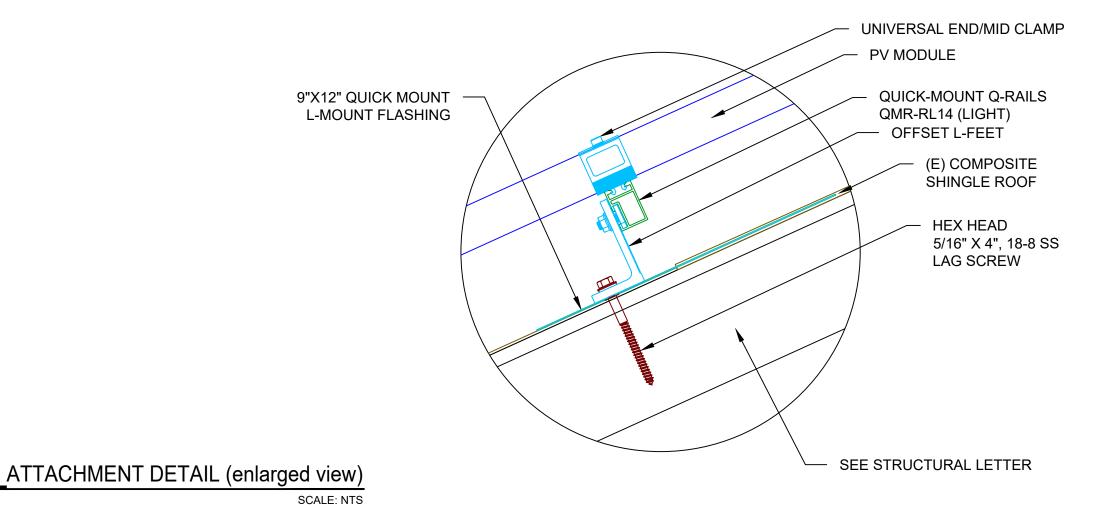
PV-2A

ROOF PLAN WITH STRING LAYOUT PV-2A SCALE: 3/32" = 1'-0"



1 ATTACHMENT DETAIL

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



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"POWER YOUR FUTURE"
919 N. MAIN ST.
MOORESVILLE, NC 28115
Phone: 704-800-5691 (OFFICE)

REVISIONS		
DESCRIPTION	DATE	REV

Signature with Seal

DATE: 6/17/2021

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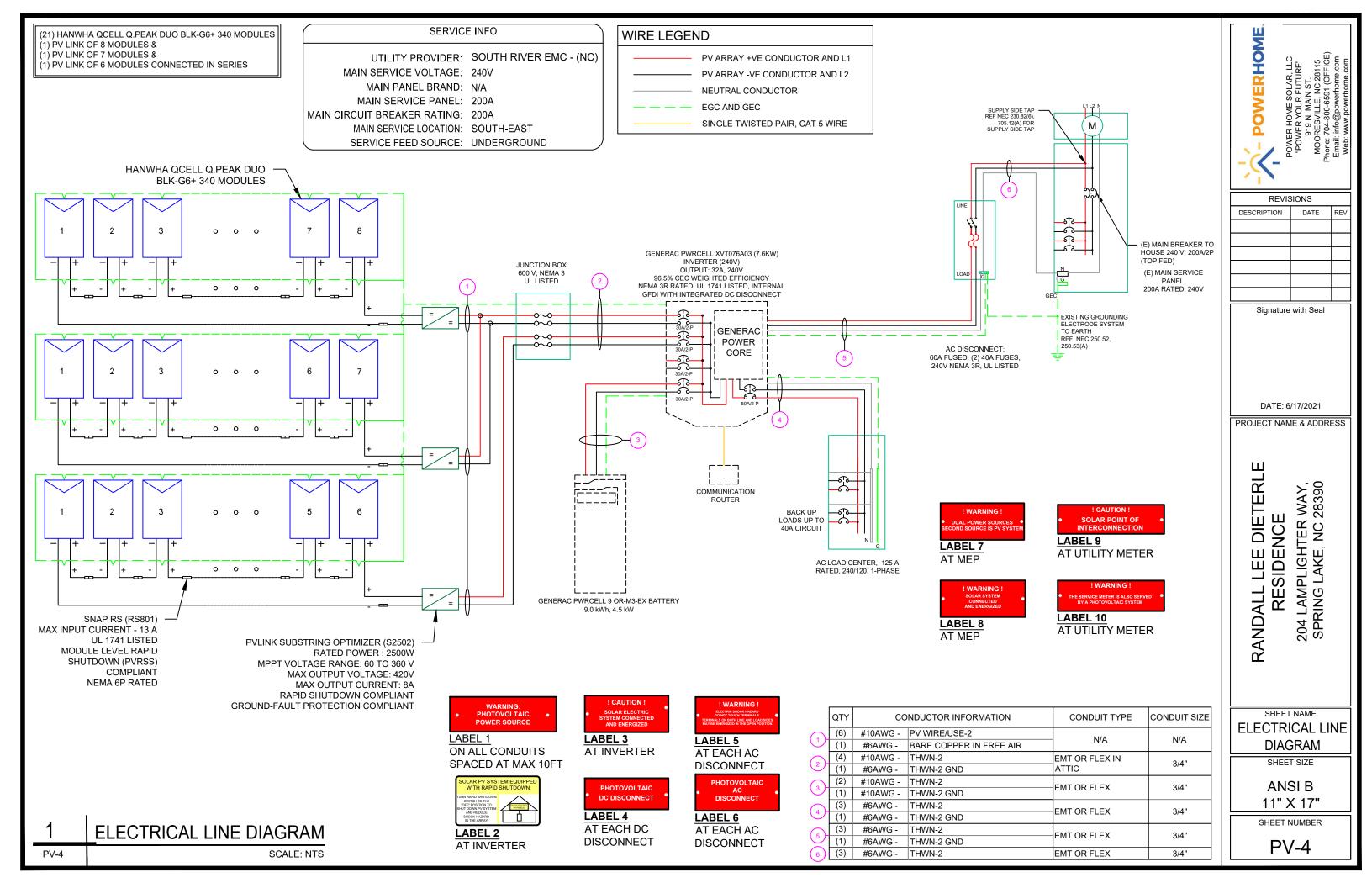
RANDALL LEE DIETERLE RESIDENCE 204 LAMPLIGHTER WAY, SPRING LAKE, NC 28390

SHEET NAME
ATTACHMENT
DETAIL

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER



SOLAR MODULE SPECIFICATIONS		
MANUFACTURER / MODEL #	HANWHA QCELL Q.PEAK DUO BLK-G6+ 340	
VMP	33.94V	
IMP	10.02A	
VOC	40.66V	
ISC	10.52A	
TEMP. COEFF. VOC	-0.27%/°C	
PTC RATING	318.35W	
MODULE DIMENSION	68.5"L x 40.6"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 SPECIFIC	ATIONS
MANUFACTURER / MODEL #	GENERAC PWRCELL 9 OR-M3-EX BATTERY
USABLE ENERGY	9kWH
AVG. AC POWER COMPLETE DISCHARGE CYCLE	3.4kW
MAX. CONT. AC POWER @40°C	4.5kW
PEAK MOTOR STARTING CURRENT (2 SEC)	25A
REBUS VOLTAGE: INPUT/ OUTPUT	360-420Vdc
NOMINAL VOLTAGE	43.20Vdc
ROUND-TRIP EFFICIENCY	96.5%

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:

EXPECTED WIRE TEMP (In Celsius)	56°
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	6
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	0.8
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)	10A
1.25 X Imax] 10A
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	

FROM JUNCTION BOX TO INVERTER:

ampacity

EXPECTED WIRE TEMP (In Celsius)	56°
TEMP. CORRECTION PER NEC TABLE 310.15 (B)(2)(a)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	4
CONDUIT FILL CORRECTION PER NEC TABLE 310.15(B)(3)(a)	0.8
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)	22.72A

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 REPINEC TARILE 210.15 (R)/2)(a)	0.00
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
CITOCIT CONDUCTOR CIEE	1071110
CIRCUIT CONDUCTOR AMPACITY PER NEC TABLE310.15(B)(16)	40A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	26 25A
1.25 X Imax	20.25A
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 (26.25A) otherwise less the entry for circuit conductor size and ampacity

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

1
34°
0.96
3
1
6 AWG
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

$\frac{\text{AC CONDUCTOR AMPACITY CALCULATIONS:}}{\text{FROM INVERTER TO MEP:}}$

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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DESCRIPTION DATE REV							

Signature with Seal

DATE: 6/17/2021

PROJECT NAME & ADDRESS

RANDALL LEE DIETERLE RESIDENCE 204 LAMPLIGHTER WAY,

SHEET NAME
WIRING
CALCULATIONS

ANSI B

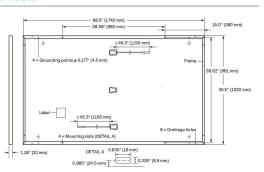
11" X 17"



QCELLS

MECHANICAL SPECIFICATION

Format	$68.5 \times 40.6 \times 1.26$ in (including frame) (1740 \times 1030 \times 32 mm)
Weight	43.9 lbs (19.9 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 × 20 monocrystalline Q.ANTUM solar half cells
Junction Box	2.09 - 3.98×1.26 - 2.36×0.59 - 0.71 in (53- 101×32 - 60×15 - 18 mm), Protection class IP67, with bypass diodes
Cable	4mm² Solar cable; (+) ≥45.3 in (1150 mm), (-) ≥45.3 in (1150 mm)
Connector	Stäubli MC4; IP68

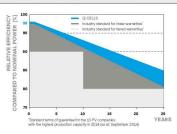


ELECTRICAL CHARACTERISTICS

POV	VER CLASS			330	335	340	345
MIN	IMUM PERFORMANCE AT STANDA	RD TEST CONDITIO	NS, STC1 (POW	ER TOLERANCE +5 W / -0	W)		
	Power at MPP ¹	P _{MPP}	[W]	330	335	340	345
_	Short Circuit Current ¹	I _{sc}	[A]	10.41	10.47	10.52	10.58
mun	Open Circuit Voltage ¹	V _{oc}	[V]	40.15	40.41	40.66	40.92
Minir	Current at MPP	I _{MPP}	[A]	9.91	9.97	10.02	10.07
2	Voltage at MPP	V_{MPP}	[V]	33.29	33.62	33.94	34.25
	Efficiency ¹	η	[%]	≥18.4	≥18.7	≥19.0	≥19.3
MIN	IMUM PERFORMANCE AT NORMA	L OPERATING COND	DITIONS, NMOT	-2			
	Power at MPP	P _{MPP}	[W]	247.0	250.7	254.5	258.2
Ę	Short Circuit Current	I _{sc}	[A]	8.39	8.43	8.48	8.52
imi	Open Circuit Voltage	Voc	[V]	37.86	38.10	38.34	38.59
Ē	Current at MPP	I _{MPP}	[A]	7.80	7.84	7.89	7.93
	Voltage at MPP	V _{MPP}	[V]	31.66	31.97	32.27	32.57

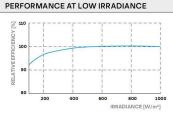
 $^{1}\text{Measurement tolerances P}_{\text{MPP}} \pm 3\%; I_{\text{SC}}; V_{\text{DC}} \pm 5\% \text{ at STC}; 1000 \text{W/m}^{2}, 25 \pm 2^{\circ}\text{C}, AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 according to IEC 60904-3 * $^{2}800 \text{ W/m}^{2}, NMOT, spectrum AM 1.5 ac$

Q CELLS PERFORMANCE WARRANTY



At least 98% 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

es. Full warranties in accordance with the warranty terms of the Q CELLS



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

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.36	Nominal Module Operating Temperature	NMOT	[°F]	109±5.4 (43±3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{SYS}	[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 ³	[lbs/ft ²]	75 (3600 Pa) / 55 (2667 Pa)	Permitted Module Temperature	-40°F up to +185°F
Max. Test Load, Push / Pull ³	[lbs/ft ²]	113 (5400 Pa) / 84 (4000 Pa)	on Continuous Duty	(-40°C up to +85°C)
20				

QUALIFICATIONS AND CERTIFICATES







				[b]	1 <mark>O-O</mark>	40'HC	
Horizontal packaging	70.1 in	42.5 in	47.6 in	1485 lbs	28	26	32
	1780 mm	1080 mm	1208 mm	674 kg	pallets	pallets	modules
Vertical packaging	71.5 in	45.3 in	48.0 in	1514lbs	28	24	32
	1815 mm	1150 mm	1220 mm	687kg	pallets	pallets	modules

PACKAGING INFORMATION

modules in two different stacking methods, depending on the location of manufacture (modules are packed horizontally or vertically). You can find more detailed information in the document "Packaging and Transport Ini available from Q CELLS.

Hanwha Q CELLS America Inc.

IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215

(solar cells)

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REVISIONS			
DESCRIPTION	DATE	REV	

Signature with Seal

DATE: 6/17/2021

PROJECT NAME & ADDRESS

DIETERL

ALL LEE DIET RESIDENCE

RANDALL

EQUIPMENT SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-6

residential buildings

Engineered in Germany







7.6kW 1Ø PWRcell Inverter with CT

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

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™ 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 ¹ :	< 7 W	

AC OUTPUT/ISLAND MODE	MODEL XVT076A03	MODEL X11402
MAX. CONT. AC POWER WHILE IN ISLAND MODE WITHOUT AN EXTERNAL TRANSFER SWITCH ² :	7600 V	ı
MAX. CONT. AC POWER WHILE IN ISLAND MODE W. EXTERNALTRANSFER SWITCH AND SINGLE 6 MODULE BATTERY CABINET ³ :	9000 V	V
MAX. CONT. AC POWER WHILE IN ISLAND MODE W. EXTERNAL TRANSFER SWITCH AND 2 BATTERY CABINETS (8 MODULES MINIMUM) ³ :	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	1%

DC INPUT	MODEL MOD XVT076A03 X1140	
OC INPUT VOLTAGE RANGE:	360-420 VDC	
NOMINAL DC BUS VOLTAGE:	380 VDC	
OC DISTRIBUTION INPUT BREAKERS:	4 x 2P30 A	
MAX INPUT CURRENT PER DC INPUT:	30 A	
REVERSE-POLARITY PROTECTION:	Yes	
FRANSFORMERLESS, UNGROUNDED:	Yes	
DC BUS EXPORT FUSES (+/-):	40 A	
P-POLE DISCONNECTION:	Yes	

EFFICIENCY	MODEL XVT076A03	MODEL X11402
PEAK EFFICIENCY:	97.3%	97.7%
CEC WEIGHTED EFFICIENCY:	96.5%	97.5%

Nighttime power consumption depends on the system mode ²In 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. ³Peak performance, values provided for 40°C (104°F).

*In Island mode Xf1402 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

Specifications

FEATURES AND MODES	
ISLAND MODE ⁴ :	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 DISCONNECT4:	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 R

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)
WEIGHT - LB (KG):	62.7 (28.4)	
COOLING:	Forced convection	
AUDIBLE NOISE:	< 40 dBA	
OPERATING TEMPERATURE:	-4 to 122 °F (-20 to 50 °C) ⁵	
ENCLOSURE TYPE:	Type 3R	

INSTALLATION GUIDELINES	
BATTERY TYPES SUPPORTED:	PWRceII [™] Battery
MODULE SUBSTRING SIZE PER PV LINK OPTIMIZER:	Varies, refer to PV Link Installation Manual
MAXIMUM RECOMMENDED DC POWER FROM PV ⁶ :	10 kW (1Ø), 15 kW (3Ø)

⁴3Ø inverters offer backup for [single phase] 208 V loads.

⁵Includes ambient temperature rising from inverter operation. Reduced power at extreme temperatures.

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

Generac Power Systems, Inc. S45 W29290 Hwy. 59, Waukesha, WI 53189 www.Generac.com | 888-GENERAC (436-3722)

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POWERHOME

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MODESVILLE, NC 28115

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Signature with Seal

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RANDALL LEE DIETERL RESIDENCE 204 LAMPLIGHTER WAY, SPRING LAKE, NC 28390

EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER





SnapRSTM

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.

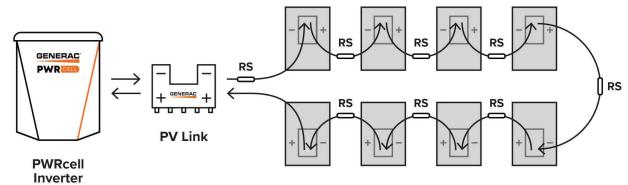


Diagram is applicable for most 60 cell PV modules. Modules with higher cell count may require a different arrangement. Contact Generac for more details.

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:	UL1741
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

^{*}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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DATE: 6/17/2021

PROJECT NAME & ADDRESS

RANDALL LEE DIETERL RESIDENCE 204 LAMPLIGHTER WAY, SPRING LAKE, NC 28390

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

GENERAC

PWRCELL

OUTDOOR RATED BATTERY

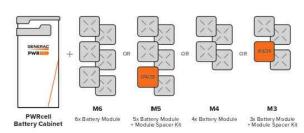
PWRcell Outdoor Rated Battery Cabinet (Ordering SKU: APKE00028) 3.0kWh PWRcell EX Battery Module Model#/Ordering SKU: G0080000

The PWRcell™ Outdoor Rated (OR) Cabinet is a Type 3R smart battery platform 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. Whether for backup power or smart energy management, PWRcell has power and capacity options for every need, without sacrificing flexibility or function.

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. When needs change, 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

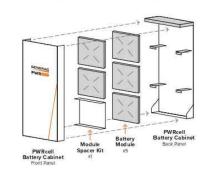




FEATURES & BENEFITS

- 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 $\mathsf{Link}^{\scriptscriptstyle{\mathsf{TM}}}$
- · 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



Specifications

CONFIGURATIONS				
BATTERY MODULE SERIES:		E	X	
BATTERY MODULES:	3	4	5	6
USABLE ENERGY:	9 kWh	12 kWh	15 kWh	18 kWh
AVG. AC POWER OVER COMPLETE DISCHARGE CYCLE:	3.4 kW	4.5 kW	5.6 kW	6.7 kW
MAX. CONT. AC POWER @ 40°C (104°F):	4.5 kW	6 kW	7.5 kW	9 kW
PEAK MOTOR STARTING CURRENT (2 SEC) - A, RMS	25	33	42	50
REbus™ VOLTAGE - INPUT/OUTPUT:	360-420 VDC			
NOMINAL VOLTAGE:	43.2 VDC			
DC-DC ROUND-TRIP EFFICIENCY:	96.5%			
MAX. AMBIENT OPERATING TEMPERATURE RANGE:	14 TO 122 °F (-10 TO 50 °C)			
RECOMMENDED AMBIENT OPERATING TEMPERATURE (FULL POWER)*:	32 to 104 °F (0 to 40 °C)			
MAXIMUM INSTALLATION ALTITUDE - FT (M):	9834 (3000)			
DIMENSIONS, L x W x H - IN (MM):	22" x 10" x 68" (559 x 254 x 1727)			
WEIGHT, ENCLOSURE - LB (KG):		115	(52)	
WEIGHT, INSTALLED - LB (KG):	287 (130)	344 (156)	401 (182)	459 (208)
WEIGHT, ACCESSORY MOUNTING HARDWARE - LB (KG):	21 (10)			
WARRANTY - LI-ION MODULES:	10 Years, (7.56MWh)			
WARRANTY - ELECTRONICS AND ENCLOSURE:	10 Years			
COMMUNICATION PROTOCOL:	REbus™ DC Nanogrid™			
COMPLIANCE:	UL 9540, UL 1973, UL 1642, CSA 22.2 #107.1			

*Performance may be limited outside of recommended operating temperature range

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



Sample Model Name: PWRcell OR M3 EX

The PWRcell Outdoor Rated Battery Cabinet can be combined with PWRcell DCB Battery Modules, but this combination is only recommended for indoor installations.

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PROJECT NAME & ADDRESS

RANDALL LEE DIETERL RESIDENCE 204 LAMPLIGHTER WAY, SPRING LAKE, NC 28390

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER





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[™] 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.

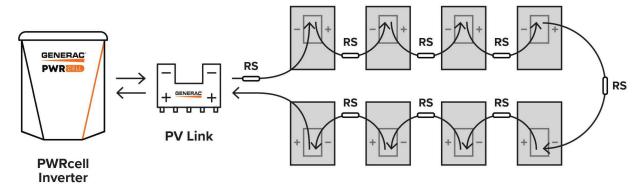


Diagram is applicable for most 60 cell PV modules. Modules with higher cell count may require a different arrangement. Contact Generac for more details.

Specifications

PV Link™ (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:	<1W
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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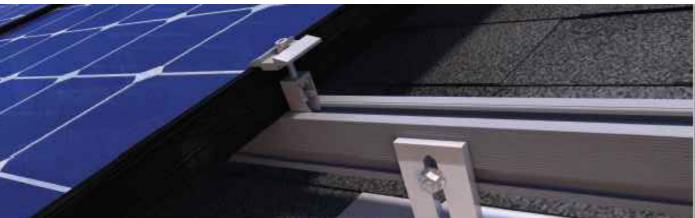
EQUIPMENT SPECIFICATION

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.

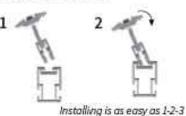


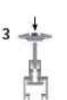
QRails come in two lengths -168 inches (14 ft) and 208 inches (17.3 ft) Mill and Black Finish

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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RANDALL LEE DIETERLE RESIDENCE

SHEET NAME **EQUIPMENT SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

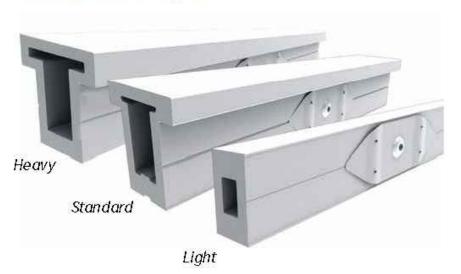
SHEET NUMBER

QRail™ Configurations



Item Code	Part Number	Description	Finish
QMR-RL14A60	800	QRail Light, 14 ft, 60 Pack	Mill
QMR-RL17.3 A 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
OMR-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



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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SHEET NAME **EQUIPMENT** SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-11A

(925) 478-8269 2

Universal End Clamp with QClick™ Technology



Black

Item Code	Part Number	Description	Finish
QMR-UEC3045 A 2 0	860	Universal End Clamp, 30-45mm, 20 Pack	Mill
QMR-UEC3850A20	861	Universal End Clamp, 38-50mm, 20 Pack	Mill
QMR-UEC3045B20	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	
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 A.12	692	Single-slot Lfoot, 12 Pack	Mill
QMC-LF B 12	693	Single-slot L-foot, 12 Pack	Black



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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PROJECT NAME & ADDRESS

RANDALL LEE DIETERLE RESIDENCE

EQUIPMENT SPECIFICATION

ANSI B 11" X 17"

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SHEET NUMBER

PV-11B

T-Bolt



Item Code	Part Number	Description	Finish
QMR-TBA300	880	T-Boltw/ Nut, 300 Pack	stainless steel

Wire Clip



Works with both PV and Trunk Cabling

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

Grounding Lug



Item Code	Part Number	Description	Finish
QMR-GL A 50	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

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PROJECT NAME & ADDRESS

RANDALL LEE DIETERLE RESIDENCE 204 LAMPLIGHTER WAY, SPRING LAKE, NC 28390

SHEET NAME **EQUIPMENT** SPECIFICATION

> ANSI B 11" X 17"

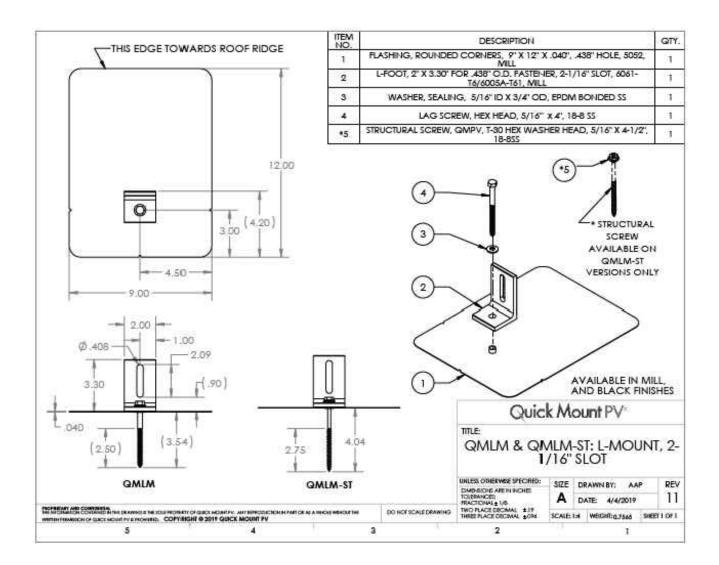
SHEET SIZE

SHEET NUMBER

PV-11C

L-Mount | QMLM / QMLM-ST

Elevated Water Seal Technology®





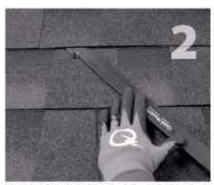
L-Mount Installation Instructions

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.



Locate, choose, and mark centers of rafters to be Carefully lift composition roof shingle with roofing Insert flashing between 1st and 2nd course. Slide mounts will be placed.



mounted. Select the courses of shingles where bar, just above placement of mount. Remove nails as required and backfill holes with aproved



up so top edge of flashing is at least 44* higher than the butt-edge of the 3rd course and lower sealant. See "Proper Flashing Placement" on next flashing edge is above the butt-edge of 1st course. Mark center for drilling.



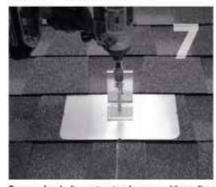
1/4" bit (ST) for attaching with the structural screw. compatible with roofing materials. Drill pilot hole into roof and rafter, taking care to drill square to the roof. Do not use mount as a drill guide. Drill a 2" deep hole into rafter.



If attaching with lag bolt use a 1/22* 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.



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 can no longer easily rotate. DO NOT over-torque. 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. as well as the module manufacturer. NOTE: Make 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

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