

## Solar Arrays and Racking

Solar Module Label Quoted	Weatherproofing & Flashing
Racking Quoted	2° Tilt and 10° Azimuth Tolerance per Optimizer
Solar Arrays Quoted	420V <sub>OC</sub> & (18 I <sub>SC</sub> PV Link    12A I <sub>SC</sub> SnapRS)
Each Array's Tilt Quoted	AC/DC Ratio 150%    160% w/ Battery
Roof Penetrations / Junction Box Wiring Photos	Two PV Links per String & Six PV Link Maximum
Home Run / Initial Roof Conduit Penetrations	Splicing / MC-4 Y-Connectors

## Electrical Layout

Wall Photo(s) of All Equipment	Correct Battery Cell Quoted
Equipment is not in Direct Sunlight	Inverter Serial Number Photos
Equipment Clearances Met	RGM Production Meter Installed For Each Inverter
Battery Cabinet Photos Showing Batteries	Consumption CTs properly installed on line-side
Battery Cell S/N Photos (one per battery cell)	

## Wiring

All Equipment is Properly Grounded with EGC	Inverter Wired (No N1 for Generac ATS)
N-G Bond Only at Service & PV Only Disconnect	Battery BMU 12V Battery Connected
Cat-5 Terminated in Internet, CTs, & ATS ports	Battery Power & Comm. Wired
PWRcell ATS w/ both Cat-5 Ports Terminated	

## Interconnection

Feeder Sized load-OCPD or (line-OCPD + EMS)	N-G Bond at ATS <only if service entrance>
Busbar w/ Main Breaker or (line-OCPD + EMS)	Load Management Photos Provided
Busbars Satisfy NEC 705.12	Maximum Load Breaker Size is not Exceeded
AC Disconnects Properly Sized	Only One Inverter Connected to ATS E Terminals
Dedicated Disconnect Installed	Only ATS Controlled Inverter Downstream of ATS

## Common Errors

Neutral Identification Complies with NEC 200.6	Valid Configuration If Installed After 03/14
EGC Identification Complies with NEC 250.119	<a href="https://generac-fs.inquisiqlms.com/warehouse/generac-fs/documents/course/627/PWRcell1PInverterSLDs_RevK.pdf">https://generac-fs.inquisiqlms.com/warehouse/generac-fs/documents/course/627/PWRcell1PInverterSLDs_RevK.pdf</a>
Trench Depth Photos Comply with NEC 300.5	
Cate-5 Comm. Cables are Separated per 2020 NEC 805.133 or 2023 NEC 800.133(B)	

**Commissioning**

All Inverters on PWRfleet Portal	Islanding Test (Arrows from PV  ESS to Home)
Ownership    Editor Properly Provided	Inverter Screen: Battery Min. SOC = 20%
Portal Shows All Equipment, Including RGM	Inverter Screen: Battery Min. SoOC Abs. = 5%
Cellular Modem Photo Installed with Beacon	Inverter Screen: Each ""SnapRSInstalled"" Count
Beacon Compliance Report PDF	OR Beacon Screenshot Showing PV Link Summary
Beacon Screenshot Showing RGM & LTE Cellular	PV Links @ 2.5-3kW w/ PVLink Sizing Tool

**Compliance Report**

Post Commissioning Compliance Report	Enable Load Shedding at 1 with PWRmanager
PV Only: Operation Modes (Grid Tie & Sell)	Enable Load Shedding at 2 without PWRmanager
NumTransSwitches: ATS: 1    Generator: 2	Islanding Enabled

Table 1: Generac Capacitance Table

<b>Inverter Configuration</b>	<b>Battery Module Quantity</b>	<b>Available Capacitance <i>kW</i></b>	<b>Maximum 240V Load Braker</b>
Protected Backup Loads Panel or ATS	3	3.4	20
Protected Backup Loads Panel or ATS	4	4.5	25
Protected Backup Loads Panel or ATS	5	5.6	30
Protected Backup Loads Panel or ATS	6	6.7	35
ATS	6	9	50*
ATS	6 & 2	11	60*

\* Please ensure larger loads are managed by the PWRmanager or SMMs.