

Solar Arrays and Racking

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

Electrical Layout

Wall Photo(s) of All Equipment	Inverter Serial Number Photos
Equipment is not in Direct Sunlight	Inverter Wired (No N1 for Generac ATS)
Equipment Clearances Met	RGM Production Meter Installed For Each Inverter
Battery Cabinet Photos Showing Batteries	Cat-5 Terminated in Internet, CTs, & ATS ports
Battery BMU 12V Battery Connected	PWRcell ATS w/ both Cat-5 Ports Terminated
Battery Power & Comm. Wired	Consumption CTs properly installed on line-side
Battery Cell S/N Photos (one per battery cell)	All Equipment is Properly Grounded with EGC
Correct Battery Cell Quoted	

Interconnection

Only One Inverter Connected to ATS E Terminals	AC Disconnects Properly Sized
Only ATS Controlled Inverter Downstream of ATS	Dedicated Disconnect Installed
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

Common Errors

Neutral Identification Complies with NEC 200.6	Valid Configuration If Installed After 03/14
EGC Identification Complies with NEC 250.119	https://generac-fs.inquisiqlms.com/warehouse/generac-fs/documents/course/627/PWRcell11PinverterSLDs_RevK.pdf
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
NumTransSwitchs: ATS: 1 Generator: 2	Islanding Enabled

Table 1: Generac Capacitance Table

Inverter Configuration	Battery Module Quantity	Available Capacitance <i>kW</i>	Maximum 240V Load Braker
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.