

# PPU-Solar

The Perpetual Power Unit (PPU) provides the hardware and software components necessary for the rapid, secure, and reliable deployment of cameras and sensors in many outdoor locations and configurations, such as perimeter systems and remote environments. With a single cost-effective platform that provides power for cameras, sensor processing, secure communications, and long battery backup, site deployment is simplified, and the stability and reliability of operation is greatly improved. The PPU provides the resources necessary to implement sites consisting of a mix of equipment from many manufacturers. It has been the central component for years in many installations around the world tasked with protecting critical assets.

## PPU-Solar

- 24 VDC nominal system
- (2) 1.25kWh deep cycle AGM batteries
- (1) Solar Panel up to 350 Watts
- High quality multi-stage charge controller
- Optimized battery charging algorithm
- Low voltage disconnect protects batteries
- Output voltages: 12VDC, 24VDC, 48VDC Optional: 110VAC and 220VAC
- Real time data reporting (such as battery voltage, charge state, etc.)
- Real time event reporting (such as loss of expected site power, operational state, security and system events)
- Provides remote operator ability to reset powered devices (cameras, communications gear, etc.) without a physical roll to site
- Nema 3R purpose built vented aluminum enclosure with multiple mounting options
- Made in the USA



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## Specifications – PPU-Solar

<b>INPUT</b>	
Solar Panel Power	1 Panel up to 350 Watts
<b>OUTPUT</b>	
Standard Voltages	12, 24, and 48VDC
Optional Voltages	110VAC / 220VAC
Max Continuous Load	20 Watts
<b>BATTERY</b>	
Type	VRLA Sealed AGM Deep Cycle 12V
Capacity	(2) 1.25kWh batteries in series
Terminal Torque	70 lb-in
<b>CHARGE CONTROLLER</b>	
Max Charging Power	350 Watts
Charging Algorithm	3 Stage (Bulk, Absorption, Float)
Temperature Compensated	Yes
Low Voltage Load Disconnect	Yes
Electronic Protections	Overload, Short Circuit, High Voltage
<b>SYSTEM CONTROLLER (PPC)</b>	
Web Based	Yes
Remote Control	Yes
Remote Alerts	Yes
Connector	RJ45
<b>BREAKERS</b>	
Protections	Battery, DC In, PPC, Load
Torque	20 lb-in
<b>LOAD WIRING</b>	
Size	22-8 AWG
Stripping Length	12 mm
Torque	14 lb-in
<b>ENCLOSURE</b>	
Type	Vented Aluminum NEMA 3R
Dimensions	18"x18"x20" (LxWxH)
Weight With Batteries	170 Pounds
Conduit Knockouts	3/4 Inch & 2 Inch NPT
<b>ENVIRONMENTAL</b>	
Operating Temperature	-20C to +50C
Operating Humidity	10% - 95% Non-Condensing
<b>OPTIONS</b>	
PPU-POE	5 Port Hardened PoE Switch 4 30W / 1 SFP Port
PPU-POE-60	6 Port Hardened PoE Switch 4 60W / 2 SFP Ports
PPU-POE-L3	11 Port Hardened Managed PoE Switch 4 30W / 4 60W / 3 SFP Ports
PPU-LTE	Hardened LTE Router – Managed by PPU – Works with most major US carriers
PPU-ILC	Intelligent Lighting Control Module and Software
PPU-TAMPER	Tamper Switch / Magnetic
PPU-INV	120VAC Inverter
PPU-SOPM-1	Side of Pole Mount for 1 Solar Panel
PPU-TOPM-1	Top of Pole Mount for 1 Solar Panel