

# SunWize® Power Ready Systems

## For Continuous Loads of 1 to 75 Watts

SunWize Power Ready Systems are stand alone systems using solar technology to provide continuous and reliable power to remote site loads. There is no need to connect to utility power. SunWize Power Ready systems are designed for site loads requiring 12, 24 or 48 volts DC or 110V-240V 50Hz/60Hz AC.

**Proven solution:** Solar has successfully powered thousands of critical applications worldwide for more than 30 years.

**Reliability:** SunWize systems allow your equipment to operate where power quality and reliability are a concern or where utility power does not exist in the most rugged environments.

**Cost-effective:** SunWize systems are cost-effective solutions providing continuous power to critical loads. SunWize systems minimize set up and installation time for rapid deployment.

**Installation flexibility:** SunWize systems can be mounted to pole sides and tops, rooftops and the ground. They can also be adapted to towers and other structures. OEM equipment can be housed in weatherproof enclosures in remote locations.

**Shipping and handling:** SunWize Systems are designed to withstand rugged transportation to remote sites. Each subsystem is fully assembled and factory tested before shipment.

## Key Features and Benefits:

- Meets your equipment electrical power requirements
- System load verified for voltage tolerances and duty cycle of operation
- System design verified for performance criteria, reliability and function
- Geographic location analysis provided
- Standard product line flexibility allows customization
- Cost-effective design maximizes space efficiency
- Solid state electronics
- UL, FM and CSA listed components
- 20/25-year solar module warranty
- Full system warranty for one year
- Pre-assembled for easy installation
- No environmental impact
- Low operating and maintenance costs
- Complete systems reduce specifying and buying time



SunWize PR110 Power Ready System



SunWize PR300 Power Ready System



SunWize PR660 Power Ready System

# SunWize® Power Ready Systems

## SunWize Power Ready System Technical Specifications

### Environmental Specification

Ambient Temperature	-30°C to 50°C
Relative humidity	100% condensing
Altitude	3000m max
Wind Speed	110MPH sustained class C exposure
Seismic	Zone 4

### Electrical Specification

Operating voltage range	From 6V up to 48VDC nominal
Array current	From 5A up to 120A
Load current	From 5A to 60A
Temperature compensation	Standard on all models
Array wattage	From 3 to 2960 watts
Battery capacity	From 5 to 1060Ah



SunWize PR120 Power Ready System

### The System

- Provides uninterrupted power to the load with a power reliability of 99.5% worst case month based on weather and insolation data specific to the site.
- Engineered for 5 days (120hrs) of autonomy based on average low temperature.

### The Modules

- Include conduit ready junction boxes.
- Comply with industry standard wind exposure of 110MPH sustained, 133MPH gust.
- Impact resistant for 25mm hail at terminal velocity.

### The Batteries

- Designed for solar applications in deep-cycle operation.
- Battery life rated for greater than 500 cycles to 80% DOD. Total battery life varies with application temperature & load characteristics.
- Maintenance free and require no watering or equalizing charge.

### The Controls

- Low voltage load disconnect, factory set for the battery type and system voltage used.
- Low voltage disconnect is set standard at 80% battery depth-of-discharge.
- Class I, Div II, sealed standard controls are available up to 20A.

### Protection and Safety

- NEC compliant circuit protection.
- Finger safe terminal blocks and covers on all switches and breakers.
- Wiring routed in liquid tight conduit is available for protection from damage and the elements

# SunWize® Power Ready Systems

## Power Ready Model Information

### STANDARD CONFIGURATIONS



# SunWize® Power Ready Systems

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### STANDARD CONFIGURATIONS

**System Voltage:** 12 Volts / 24 Volts / 48 Volts

#### Enclosure Style

- Front opening hinged door, pole mounted
- Top opening hinged door battery enclosure, ground mounted
- Front opening door, captive screw cover, mil-finish aluminum, pole mounted

#### Structure Style

- Side of pole mount, separate from enclosure
- Ground/roof mount, separate from enclosure
- Top of pole mount
- Integrated mount (5 – 20W solar panels only)

#### Enclosure Finish

- Powder-coated white aluminum
- Mil-finish aluminum
- SS-304 stainless steel
- Reinforced fiberglass

#### Structure Finish

- Mill-finish aluminum
- Powder-coated finish
- Hot dipped galvanized

#### System Standard Options:

##### Wire Protection

- PV direct to controller w/in-line battery fuse
- DC-rated circuit breakers for PV & battery

##### Lightning Protection

- External surge arrestor 125VDC

##### Load Distribution and Control

- Load wired directly to controller
- Four terminal load distribution block
- Four terminal load distribution block, w/DC-rated circuit breaker
- External multi-cycle load timer, w/DC-rated circuit breaker
- Integral controller, w/multi-cycle load timer w/DC-rated circuit breaker
- Dusk-dawn sensor, w/DC-rated circuit breaker
- Dusk-dawn sensor, w/external multi-cycle load timer, w/DC-rated circuit breaker



SunWize PR220 Power Ready System



SunWize PR360 Power Ready System