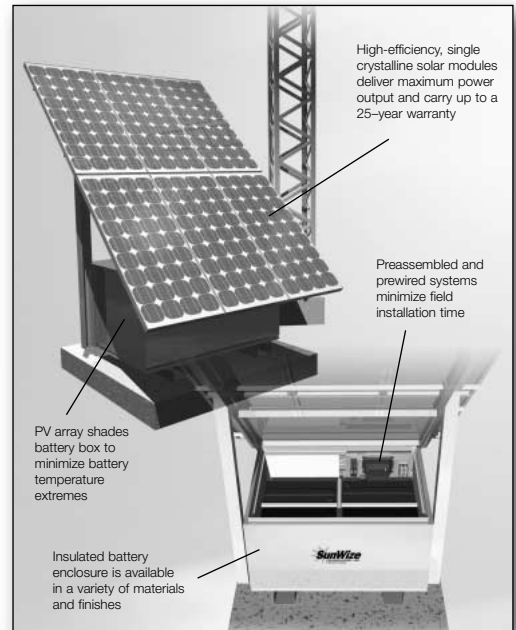


Power Ready System

SunWize® Power Ready Systems are complete, fully integrated power supplies designed for site loads requiring 12, 24 or 48 volts DC. Each system provides safe and reliable power generation without the need and expense of installing utility power. The sealed, maintenance free batteries are designed for deep cycle operation and extended life in solar applications. The aluminum array support structures and battery enclosures are strong yet lightweight and corrosion resistant for harsh marine or severe weather locations.

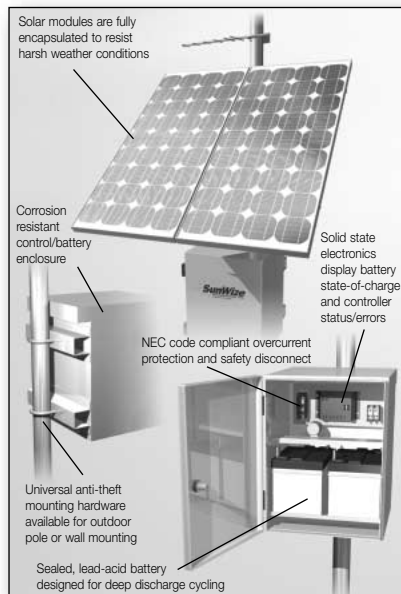
Because Power Ready Systems are designed to withstand rugged transportation to remote sites, single-lift integral lifting lugs and/or forklift slots are provided. Optional helicopter handling features are also available. The system is fully assembled

for factory testing before shipment. The prewired systems are typically shipped fully assembled with a protective cover over the array and are bolted to a skid. The solar array for larger systems is shipped in a separate plywood crate and the battery enclosure is mounted on a skid. In some cases, batteries are shipped



Industrial Prepackaged Solar Power Systems for:

- Telecommunications
- RTU/SCADA Applications
- Data Collection
- Instrumentation
- Security Lighting & Surveillance
- Navigational Aids
- Flow Monitoring
- UHF/VHF Radio
- Seismic Monitoring
- Tank Gauging
- Radio Telephones
- Railroad Signaling
- Area/Sign Lighting
- Cellular Extenders
- Microwave Repeaters
- Cathodic Protection
- Irrigation Control



separately. Power Ready Systems carry a one-year system warranty for materials and workmanship. A three-year SunWize performance warranty is available on pre-packaged systems. The solar modules have up to a 25-year warranty. Careful component selection results in a system with a lifetime exceeding 25 years with battery replacements every five to ten years.

SYSTEM SELECTION TABLE

(Figures below are daily load in Amp-hrs/day. Refer to the map at www.sunwize.com/catalog/images/map.gif)

12 Volt SYSTEMS	PEAK SUN HOURS												24 Volt SYSTEMS
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0		
PR005-12-019	0.2	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4	1.5	PR010-24-019	
PR010-12-038	0.5	0.7	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.8	3.1	PR020-24-038	
PR020-12-038	1.0	1.5	1.9	2.4	2.8	3.4	4.0	4.4	5.0	5.6	6.2	PR040-24-038	
PR040-12-079	1.9	2.8	3.8	4.8	5.6	6.7	7.8	8.6	9.8	11.0	12.2	PR080-24-079	
PR050-12-120	2.4	3.6	4.8	6.0	7.1	8.5	9.8	10.9	12.3	13.8	15.2	PR100-24-120	
PR075-12-120	3.5	5.3	7.0	8.8	10.0	11.9	14.1	15.5	17.7	20.0	22.3	PR150-24-120	
PR090-12-240	4.1	6.2	8.2	10.4	12.6	14.7	17.2	19.1	21.5	23.8	26.2	PR180-24-240	
PR115-12-240	5.5	8.2	11.0	13.8	16.2	19.2	22.4	25.0	28.2	31.6	35.0	PR230-24-240	
PR150-12-240	7.1	10.6	14.0	17.5	20.0	23.9	28.2	31.1	35.3	40.3	44.5	PR300-24-240	
PR180-12-240	8.3	12.5	16.2	20.0	24.0	27.6	32.6	35.4	40.9	47.2	52.5	PR360-24-240	
PR230-12-240	11.0	16.3	21.0	25.8	28.8	34.8	41.2	44.3	51.8	61.7	70.0	PR460-24-240	
PR230-12-480	11.6	16.5	22.0	28.2	32.2	38.4	44.9	50.0	56.6	63.4	70.0	PR460-24-480	
PR300-12-600	14.4	21.6	28.8	36.0	43.2	50.4	57.6	64.8	72.0	79.2	86.4	PR600-24-600	
PR360-12-750	17.3	25.0	33.2	42.2	49.4	59.2	68.4	76.6	85.7	96.0	105.0	PR720-24-750	
PR425-12-750	19.8	28.6	38.0	48.3	56.6	67.8	78.3	87.7	98.1	109.9	120.2	PR850-24-750	
PR460-12-900	22.1	33.1	44.2	55.2	66.2	77.3	88.3	99.4	110.4	121.4	132.5	PR920-24-900	
PR510-12-1000	24.7	35.8	47.3	59.8	69.0	82.0	96.2	106.8	120.4	133.5	148.0	PR1020-24-900	

Note: Each system was designed for a Loss of Load Probability (LOLP) of less than 0.1% for the worst month. • Contact SunWize for 48 Volt system selections.

Power Ready Systems

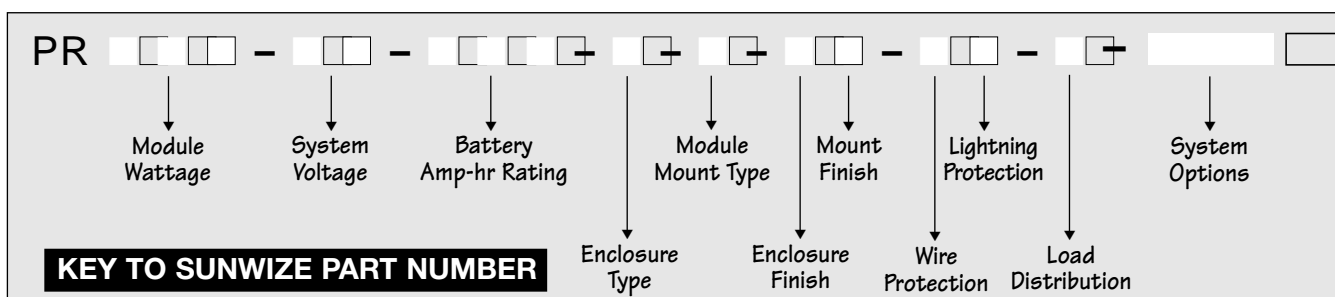
Standard Features and Benefits
Solar modules are fully encapsulated to resist harsh weather conditions
Low voltage load disconnect for battery protection
Sealed, lead-acid battery designed for deep discharge cycling
NEC code compliant overcurrent protection and safety disconnect
Temperature compensated battery charging
Corrosion resistant control/battery enclosure
Installation, operation & maintenance documentation
Solid state electronics for improved efficiency and reliability
Preassembled, prewired systems minimize field installation time & eliminate wiring errors
Low maintenance and operating costs
Complete systems reduce specifying and buying time
Quality components assure long system life
Full system and performance warranty available on prepackaged systems
System Options (choose ANY & enter into SunWize Part Number)
a. DC to DC converter (specify output voltage/current)
b. DC to AC inverter (specify output voltage/current)
c. Data logging / Remote monitoring
d. Cathodic protection controller
e. Electronic load compartment
f. Theft deterrent solar module hardware
g. Helicopter lifting lugs
h. Bird deterrent (stainless steel strips for solar module)
Controller Options (choose ONE & enter into SunWize Part Number)
i. SunWize LCD - displays battery voltage, SOC, charging & load current, controller status/errors
j. SunWize LVA - low battery SOC/load disconnect contact closure

Module Wattage
System Voltage
12 volts
24 volts
48 volts
Battery Amp-hr Rating (based on 100-hour discharge rate)
Enclosure Type
F – Front opening hinged door, pole mounted
T – Top opening hinged door, ground/pad mounted
C – Front opening door (screw-type), pole mounted
E – Economy
Module Mount Type
I – Integral with enclosure
P – Pole mount, separate from enclosure
G – Ground mount, separate from enclosure
Enclosure Finish
A – Milled aluminum (standard)
W – Powder coated white aluminum
S – Galvanized steel
F – Fiberglass reinforced polyester
Mount Finish
A – Milled aluminum
P – Painted steel
S – Galvanized steel
Wire Protection
0 – PV and battery wired directly to controller, fused battery line
1 – DC-rated circuit breakers for PV and battery (standard – NEC compliance)
Lightning Protection
0 – Standard MOV surge protection
1 – Silicon-oxide varistor (SOV)
Load Distribution and Control
0 – None, load wired directly to controller
1 – Four terminal load distribution block (standard)
2 – DC-rated circuit breaker
3 – Multi-cycle timer

HOW TO SELECT YOUR SYSTEM

The chart below specifies a system designed to meet the daily load of your equipment.

- 1) Use the map located at www.sunwize.com/catalog/images/map.gif to select the zone that corresponds to the equipment site location.
- 2) Determine your daily equipment load requirement in Amp-hrs/day at the specified voltage.
- 3) In the Selection Table, under your “peak sun hours” column, find the value of Amp-hours/day that is greater than or equal to your load. Based on your system voltage, select your SunWize part number.



SUNWIZE SYSTEMS