

SunSmart 110 110 watt 12Vdc Solar Electric Power System

Hardware Specifications:

General Features:

The SunSmart 110 is a self contained Solar Electric Power System designed for remote wireless surveillance applications. Its industrial design is for ease of installation with a minimum amount of maintenance required. It includes all hardware needed to install the system on a utility pole. It will provide power to 3 IP devices with a max of 8 watts each. It is designed for industrial applications and delivers superior performance in all weather conditions. The system battery provides 125 **spare** Amp Hours of power to operate equipment in the event of a temporary weather event. The SunSmart 110 includes smart technology components that will disconnect the battery from the wireless equipment in the event the voltage drops below 11.6 volts. As the battery replenishes the controllers automatically bring the devices back online. This feature significantly prolongs the life of the battery.



The chart below can be useful to determine the performance of the Solar Pack in other applications.

Solar Panel (2):

Power: 54 watts
Dimensions: 25.7"L x 25"W x 2.1"H
Weight: 11.0 lbs

Battery:

Voltage: 12vdc
Amps: 255 AH
Construction: AGM Deep Cell Solar
Dimensions: 20.62"L x 10.95"W x 10.17"H
Weight: 165 lbs

Smart Technology Power Controller:

Peak Efficiency: 97.5%
Nom Battery Voltage: 12 or 24 volts
Max battery Current: 15Amps
Battery Voltage Range: 7-36 volts
Max PV Open Circuit voltage: 75 volts
Nominal Max PV input: 200 watts @12v
Output Rating: 15 Amps load control
Self Consumption: 35ma
Transient Surge Protection: 4 x 1500 Watts
Operating Temp: -40c to +60c
Electronic Protections: overload, short circuit, high voltage, reverse polarity, battery, PV & load, lightning & transient surges, high temp, reverse current at night

Weather proof battery box:

Vented for out gassing

Side of pole solar panel/battery mounts:

Outdoor galvanized steel mounting hardware

Peak sun hours per day

12.6 Vdc Sun Pack	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
Amp/Hrs/day	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	44.0
Amp/Hrs/Hr.	0.33	0.50	0.67	0.83	1.00	1.16	1.33	1.50	1.66	1.83
Watts/Hr.	4.15	6.30	8.44	10.46	12.60	14.60	16.76	18.90	20.90	23.00
Max days w/o sun	8.27	9.10	10.10	11.37	13.00	15.17	18.20	22.70	30.00	45.50

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