

RMS Series

Solar Engines

Urban Solar's RMS Series is designed to meet almost any power requirement. The RMS answers the demand for reliable, high performing, remote solar power systems.

The RMS Series offers a range of power, load control, and mounting options to suit any requirement from loads such as data monitoring, security cameras to solar airfield sign lighting.

- Low installation costs; no trenching, cabling or wiring
- No electricity bills
- Immune from power outages
- UL listed. Independently tested for safety

The RMS Series combines environmentally friendly photovoltaic technology and intelligent power management to deliver a dependable, autonomous power solution that will provide years of maintenance-free operation in the most challenging environments.



SPECIFICATIONS

Applications

- General lighting
- Pathway lighting
- Mine or obstruction lighting
- Airfield lighting
- Emergency lighting, portable power supply
- Back-up power
- Environmental monitoring

Controller features

- 12 or 24V, 6, 10, or 20A
- Charge temperature compensation
- Anodized aluminum case
- Marine rated terminals
- Adjustable operating profiles

Controller electrical specifications

- Rated solar input: 20A (max)
- Rated load: 20A (max)
- Charge voltage: 14.4V (max)
- Charge compensation: -28mV/°C
- Load disconnect: 11.5V
- Load re-connect: 12.6V
- Self-consumption: 10mA
- Operating temperature: -30 to 80 °C

Model Specifications

RMS Model	50W	80W	120W
Open circuit voltage (Voc):	21.6V	21.6V	21.6V
Optimum operating voltage (Vmp):	17.3V	17.3V	17.3V
Short circuit current (Isc):	3.2A	5.1A	7.8A
Optimum operating current (Imp):	2.9A	4.6A	6.9A
Maximum power (Pm):	50Wp	80Wp	120Wp

Mechanical

RMS Model	50W	80W	120W
Length (inch):	26.1	39.1	56.0
Width (inch):	32.8	32.8	32.8
Height (inch):	3.75	3.75	3.75
Weight (lbs):	70	125	250
Batteries:	3	6	10

Solar

Solar module technology:	Mono-crystalline photovoltaic
Module size:	50W to 120W
Operating temperature:	-30 to 80°C (-22 to 176°F)

Battery

Technology:	Maintenance-free, AGM, lead acid
Weight:	13.6lbs
Nominal operating voltage:	12.8V
Operating temperature:	-30 to 80°C (-22 to 176°F)
Dimensions:	7.1 x 3.0 x 6.1in

Specifications are subject to change without notice and are intended as general guidelines. Detailed specifications are based on site-specific weather conditions and system design variables.
*Patent pending.



**Made in
the USA.**



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