

"Making Solar Simple"

MADE IN USA

MAPPS SPECIFICATIONS

Photovoltaic Modules

- High Efficiency Crystalline Silicon
- Meet JPL Block V Durability Criteria
- Tempered Glass and Aluminum Frame
- Module Warranty up to 25 Years

Gel Cell Sealed Batteries

- Sealed Maintenance-Free

- Excellent Deep-Cycling Performance
- Immobilized Electrolyte, Non-Spillable
- Transports Easily and Safely

Charge/Load System Controller

- Field Proven High Efficiency Design
- Temperature Compensated Charging
- Low Voltage Load Disconnect
- Most Models UL Listed and FM Approved

Balance of System Components

- Weatherproof Battery/Controller Enclosure
- Heavy Duty Aluminum Mounting Structures
- Color-Coded, Pre-Cut Wiring Harness
- Easy-to-Follow Manual/System Schematics

Optional Equipment Specifications

Lighting Control

- Ten field adjustable lighting control options
- Many
- Detects day and night using the PV array

DC/AC Inverter for 120 VAC Systems

- Pure Sine Wave 120 VAC Power
- Low Battery Cutout Protection
- Overload & overtemp protection

Optional Accessories

Frangible Couplings

- Designed for Aviation and Roadside Apps
- Omni-directional breakaway support system

Aluminum shelf and backpanel

- DIN RAIL for customer load (s)
- Polyphaser surge protection for radios

DC to DC Voltage Converters

- Prewired on backpanel
- 12-24, 24-12, 24-24, 48-24, 12-48, 48-12 and more available



MAPPS Remote Photovoltaic Power System Datasheet

Model Number: MAPPS 50-216-12 C1D2

MAPPS Solar System Specifications

Solar Array Wattage, Standard Test Conditions, STC	50 W
Nominal System Voltage	12 VDC
Battery System Storage, 100 hour rate	216 Amp-Hrs
Battery Type	Sealed Lead Acid Gel
Solar Module Certifications	ETL Listed to UL 1703, Class I Division 2, Group A, B, C, D
Battery Enclosure Rating	NEMA 3R
MAPPS System Weight	193.2lbs. (87.64kg.)

MAPPS Upgrades

Dusk/dawn Light Controller	Not Included
Frangible Coupling	Not Included
Radio Shelf	Not Included

MAPPS System Electrical Specifications

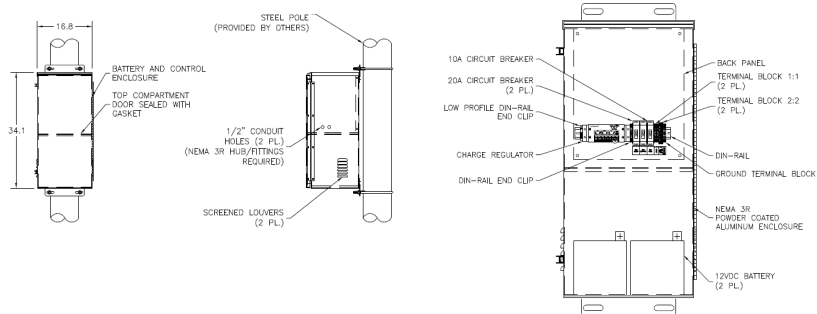
Solar Array Max Power Current, Imp	2.9 A
Solar Array Short Circuit Current, Isc	3.2 A
Solar Array Vmp	17.5 VDC
Solar Array Voc	21.8 VDC
Solar Temperature Coefficient (Voc/°C)	-0.360%
Solar Charge Controller Amp Rating	15.0 A
Solar Charge Controller Voltage	12 VDC 24 VDC
Optional Dc to AC Sine Wave Inverter Wattage	N/A
Optional Dc to AC Sine Wave Inverter Nom. DC Voltage	N/A

MAPPS Solar Array Mechanical Specifications

Solar Array Total Area	4.84 sq.ft (0.45sq.m)
Solar Array & Mounting Structure Total Weight	23.2lbs. (10.53kg.)
Solar Mounting Structure Mounting Method	Side-of-Pole
Solar Mounting Structure Wind Speed Rating	90 MPH
Solar Mounting Structure Material	Milled Aluminum

MAPPS Battery and Equipment Enclosure

Mounting Method	Standard Pole Mount
Material	Powder-Coated Aluminum
Enclosure Finish	Glossy Urethane Enamel White
Dimensions (LxWxH)	34 in. x 16.8 in. x 16 in. (3.16 m x 1.57 m x 1.49 m)
Weight (with Batteries)	170lbs. (77.12kg.)



MAPPS Optional Accessories

Wind Speed Upgrade	No
Optional DC-DC Converter	No

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