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
- Manı
- Detects day and night using the PV array

DC/AC Inverter for 120 VAC Systems

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

Optional Accessories

Frangible Couplings

- Designed for Aviation and Roadside AppsOmni-directional breakaway support
- 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



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MAPPS Remote Photovoltaic Power System Datasheet

Model Number: MAPPS 90-216-12

MAPPS Solar System Specifications	
Solar Array Wattage, Standard Test Conditions, STC	90 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	207 lbs
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	5.03 A
Solar Array Short Circuit Current, Isc	5.6 A
Solar Array Vmp	17.9 VDC
Solar Array Voc	22.2 VDC
Solar Temperature Coefficient (Voc/°C)	-0.360%
Solar Charge Controller Amp Rating	20.0 A
Solar Charge Controller Voltage	12 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 Specification	ns
Solar Array Total Area	6.97 sq.ft (0.65sq.m)
Solar Array & Mounting Structure Total Weight	32 lbs
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 En	closure
Mounting Method	Standard Pole Mount
Material	Milled Aluminum
Enclosure Finish	Glossy Urethane Enamel White
Dimensions (LxWxH)	26.2 in. x 16.5 in. x 10.6 in. (2.44 m x 1.54 m x 0.99 m)
Weight (with Batteries)	175 lbs

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Wind Speed Upgrade No
Optional DC-DC Converter No