"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

• 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 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 90-108-12

90 W 12 VDC
12 VDC
108 Amp-Hrs
Sealed Lead Acid Gel
ETL Listed to UL 1703, Class I Division 2, Group A, B, C, D
NEMA 3R
127 lbs
Not Included
Not Included
Not Included
5.03 A
5.6 A
17.9 VDC
22.2 VDC
-0.360%
10.0 A
12 VDC
N/A
N/A

MAPPS Solar Array Mechanical Specifications	
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

Standard Pole Mount
Milled Aluminum
Glossy Urethane Enamel White
18 in. x 16 in. x 10.8 in. (1.68 m x 1.49 m x 1.01 m)
95 lbs

MAPPS Optional Accessories Wind Speed Upgrade Optional DC-DC Converter

No No

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