"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 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



TOLL FREE (877)297-0014 DIRECT (831)462-8243 FAX (831)462-8246

MAPPS Remote Photovoltaic Power System Datasheet

Model Number: MAPPS 280-265-12

MAPPS Solar System Specifications

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Solar Array Wattage, Standard Test Conditions, STC	280 W
Nominal System Voltage	12 VDC
Battery System Storage, 100 hour rate	265 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	282 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	14.2 A
Solar Array Short Circuit Current, Isc	16.4 A
Solar Array Vmp	17.4 VDC
Solar Array Voc	22.0 VDC
Solar Temperature Coefficient (Voc/°C)	-0.360%
Solar Charge Controller Amp Rating	30.0 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	21.86 sq.ft (2.04sq.m)	
Solar Array & Mounting Structure Total Weight	83 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 End	closure
Mounting Method	Pad/Pedestal Mount
Material	Powder-Coated Aluminum
Enclosure Finish	Glossy Urethane Enamel White
Dimensions (LxWxH)	40.5 in. x 25 in. x 15.5 in. (3.77 m x 2.33 m x 1.44 m)
Weight (with Batteries)	199 lbs

MADDOO	ptional Accessories
INAPPS U	011101018H #A(00004858(0111648

Wind Speed Upgrade No
Optional DC-DC Converter No