SOLAR ELECTRIC SUPPLY, INC.
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*"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
- Mani
- 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 300-265-24**

| MAPPS Solar System Specifications | |
|---|---|
| Solar Array Wattage, Standard Test Conditions, STC | 300 W |
| Nominal System Voltage | 24 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 | 439 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 | 8 A |
| Solar Array Short Circuit Current, Isc | 8.6 A |
| Solar Array Vmp | 35.0 VDC |
| Solar Array Voc | 44.0 VDC |
| Solar Temperature Coefficient (Voc/°C) | -0.360% |
| Solar Charge Controller Amp Rating | 20.0 A |
| Solar Charge Controller Voltage | 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 Enclosure | |
|---|---|
| Mounting Method | Standard Pole Mount |
| Material | Milled Aluminum |
| Enclosure Finish | Glossy Urethane Enamel White |
| Dimensions (LxWxH) | 30.5 in. x 24 in. x 14.5 in. (2.84 m x 2.23 m x 1.35 m) |
| Weight (with Batteries) | 356 lbs |

| MAPPS Optional Accessories | |
|---|---|
| Wind Speed Upgrade | No |
| Optional DC-DC Converter | No |