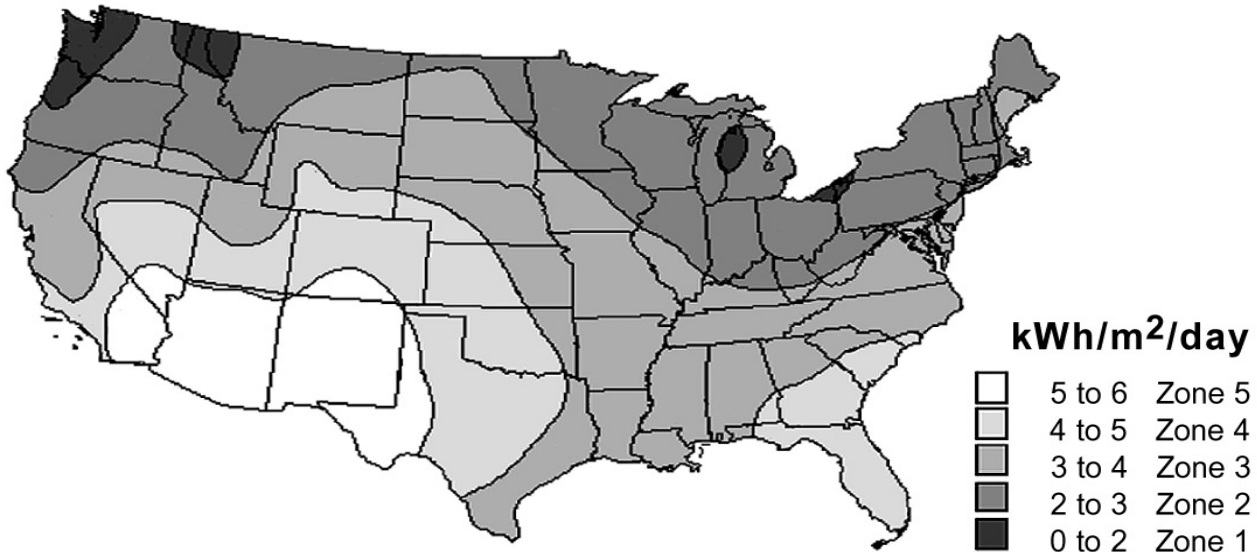




**SOLAR  
ELECTRIC  
SUPPLY, INC.**



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



## MAPPS Class I DIV II Solar Power Systems for Hazardous Locations Design and Pricing Guide

### 1. CALCULATE YOUR POWER REQUIREMENTS

Figure your load in Watt-hours per day. Consider both continuous and intermittent loads in a 24-hour period. Average over a week if loads change daily.

### 2. DETERMINE YOUR SOLAR INSOLATION ZONE

Locate your site on the map below. The map represents average solar energy available in the winter. Available energy increases incrementally from zones 1 through 5.

### 3. USE THE PERFORMANCE TABLE TO CHOOSE YOUR SYSTEM

The tables below represent the Watt-hours per day performance of each MAPPS system in the different solar zones. Choose your system voltage, then look down your solar zone column for the value that meets or exceeds your design load Watt-hours. Follow the row to the left for the corresponding prepackaged MAPPS system that will fully power your load requirements.

Complimentary solar sizing analysis for your location can be provided with quotation

#### 12 Volt MAPPS System Specifications

12 Volt DC Systems	Batt Cap. (Ah)	Solar Array Wattage	Zone 1 MAPPS Whr/d	Zone 2 MAPPS Whr/d	Zone 3 MAPPS Whr/d	Zone 4 MAPPS Whr/d	Zone 5 MAPPS Whr/d	List Price
MAPPS 30-99-12 C1D2	99	30	20	39	59	77	96	\$ 4,585
MAPPS 50-99-12 C1D2	99	50	33	65	98	128	160	\$ 4,671
MAPPS 50-198-12 C1D2	198	50	33	65	98	128	160	\$ 5,228
MAPPS 90-99-12 C1D2	99	90	59	117	176	230	288	\$ 4,793
MAPPS 90-198-12 C1D2	198	90	59	117	176	230	288	\$ 5,350
MAPPS 150-198-12 C1D2	198	150	98	195	293	383	480	\$ 5,768
MAPPS 150-396-12 C1D2	396	150	98	195	293	383	480	\$ 7,419
MAPPS 300-198-12 C1D2	198	300	195	390	585	765	960	\$ 6,674
MAPPS 300-396-12 C1D2	396	300	195	390	585	765	960	\$ 8,325



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## MAPPS Class I DIV II Solar Power Systems for Hazardous Locations Design and Pricing Guide (p.2)

### 24 Volt MAPPS System Specifications

24 Volt DC Systems MAPPS ID Number	Batt Cap. (Ah)	Solar Array Wattage	Zone 1 MAPPS Whr/d	Zone 2 MAPPS Whr/d	Zone 3 MAPPS Whr/d	Zone 4 MAPPS Whr/d	Zone 5 MAPPS Whr/d	List Price
MAPPS 80-99-24 C1D2	99	80	52	104	156	204	256	\$ 5,360
MAPPS 100-99-24 C1D2	99	100	65	130	195	255	320	\$ 5,804
MAPPS 100-198-24 C1D2	198	100	65	130	195	255	320	\$ 7,455
MAPPS 120-99-24 C1D2	99	120	78	156	234	306	384	\$ 5,848
MAPPS 120-198-24 C1D2	198	120	78	156	234	306	384	\$ 7,499
MAPPS 190-99-24 C1D2	99	190	124	247	371	485	608	\$ 5,892
MAPPS 190-198-24 C1D2	198	190	124	247	371	485	608	\$ 7,543
MAPPS 300-99-24 C1D2	99	300	195	390	585	765	960	\$ 6,686
MAPPS 300-198-24 C1D2	198	300	195	390	585	765	960	\$ 8,337
MAPPS 380-198-24 C1D2	198	380	247	494	741	969	1216	\$ 8,573
MAPPS 570-198-24 C1D2	198	570	371	741	1112	1454	1824	\$ 9,537

**Wholesale Pricing available for OEM's, distributors, integrators, VAR's & dealers**

#### Load Power Requirement Example:

Test the actual power draw of the equipment if you can. Add up all the loads in Watt-hr/day  
12 VDC example: 1.2 Amps X 12 Volts = 14.4 Watts X 24 hr/day = 346 Watt-hr/Day

#### Solar Electric Supply Inc. Headquarters

Call 877-297-0014 for Sales & Technical Support Visit us at: [www.solarelectricsupply.com](http://www.solarelectricsupply.com)

#### SES MAPPS C1D2 Systems Overview: MADE IN THE USA

- Enclosures come pre-assembled and pre-wired, for quality control, Listing certification and quick installation
- Designed for 2"-4" SCH40 pole mount
- Array sizes: from 10W to 600W
- Battery capacities: from 100AH to 400AH
- System voltage: 12 or 24 volts DC
- Systems use C1D2 certified PV Modules
- Batteries are maintenance-free Gel VRLA (valve regulated lead acid, also known as recombinant), for deep cycle operation and extended life in solar applications
- Charge regulators include Low Voltage Disconnect (LVD) and temperature compensation
- Enclosures UL NEMA 3R Certified and are powder coated white aluminum for corrosion resistance and include pad lock hasps.
- Electronics are housed in a separate compartment
- Circuit breakers are included as a means of disconnect and for short circuit protection