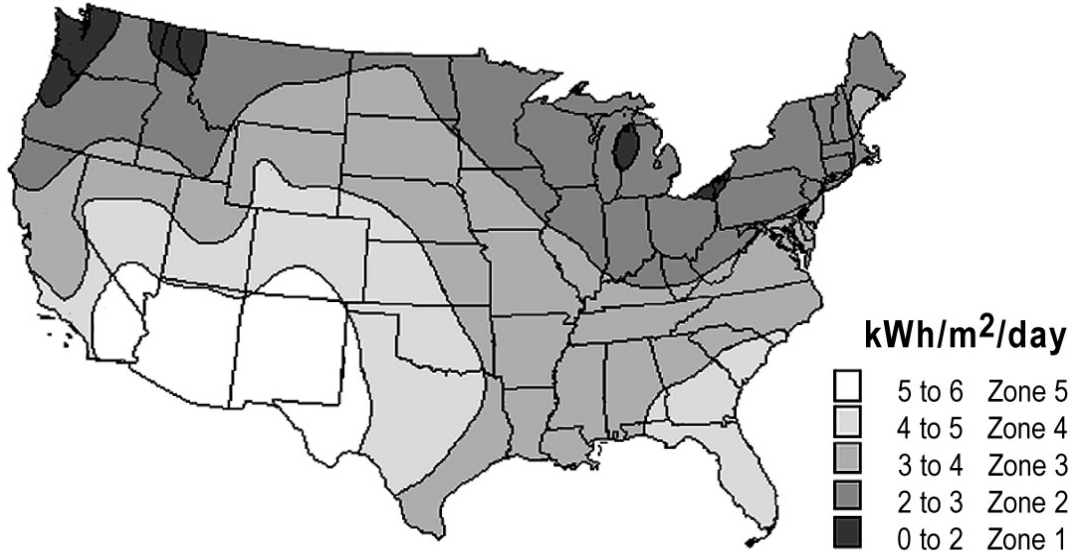




**SOLAR
ELECTRIC
SUPPLY, INC.**



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



MAPPS Solar Power Systems Design 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	Solar Array	Battery Capacity	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
MAPPS ID Number	Wattage	Amp-hr	MAPPS Whr/d	MAPPS Whr/d	MAPPS Whr/d	MAPPS Whr/d	MAPPS Whr/d
MAPPS 20-36-12	20	36	13	26	39	51	64
MAPPS 30-58-12	30	58	20	39	59	77	96
MAPPS 50-108-12	50	108	33	65	98	128	160
MAPPS 90-108-12	90	108	59	117	176	230	288
MAPPS 90-216-12	90	216	59	117	176	230	288
MAPPS 100-216-12	100	216	65	130	195	255	320
MAPPS 140-216-12	140	216	91	182	273	357	448
MAPPS 180-216-12	180	216	117	234	351	459	576
MAPPS 280-265-12	280	265	182	364	546	714	896
MAPPS 280-530-12	280	530	182	364	546	714	896

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

MAPPS Solar Power Systems Design and Pricing Guide

24 Volt MAPPS System Specifications

24 Volt DC Systems SCPPS ID Number	Solar Array Wattage	Battery Capacity Amp-hr	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
MAPPS 40-36-24	40	36	26	52	78	102	128
MAPPS 100-108-24	100	108	65	130	195	255	320
MAPPS 190-108-24	190	108	124	247	371	485	608
MAPPS 280-265-24	280	265	182	364	546	714	896
MAPPS 380-265-24	380	265	247	494	741	969	1216
MAPPS 380-530-24	380	530	247	494	741	969	1216
MAPPS 570-530-24	570	530	371	741	1112	1454	1824
MAPPS 760-530-24	760	530	494	988	1482	1938	2432
MAPPS 1140-530-24	1140	530	741	1482	2223	2907	3648
MAPPS 1140-1060-24	1140	1060	741	1482	2223	2907	3648

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48 Volt MAPPS System Specifications

48 Volt DC Systems SCPPS ID Number	Solar Array Wattage	Battery Capacity Amp-hr	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
MAPPS 1140-530-48	1140	530	741	1482	2223	2907	3648
MAPPS 1520-795-48	1520	795	988	1976	2964	3876	4864
MAPPS 1900-795-48	1900	795	1235	2470	3705	4845	6080
MAPPS 2280-1060-48	2280	1060	1482	2964	4446	5814	7296

120 Volt MAPPS System Specifications

120 Volt AC Systems SCPPS ID Number	Solar Array Wattage	Battery Capacity Amp-hr	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
MAPPS 50-108-12-120	50	108	27	55	82	109	136
MAPPS 90-108-12-120	90	108	49	99	148	196	245
MAPPS 90-216-12-120	90	216	49	99	148	196	245
MAPPS 100-216-12-120	100	216	54	110	164	218	272
MAPPS 140-216-12-120	140	216	76	154	230	305	381
MAPPS 190-108-24-120	190	108	103	209	312	414	517
MAPPS 280-265-24-120	280	265	151	308	459	610	762
MAPPS 380-530-24-120	380	530	205	418	623	828	1034
MAPPS 570-530-24-120	570	530	308	627	935	1243	1550
MAPPS 760-530-24-120	760	530	410	836	1246	1657	2067
MAPPS 1140-1060-24-120	1140	1060	616	1254	1870	2485	3101
MAPPS 1520-795-48-120	1520	795	821	1672	2493	3314	4134
MAPPS 1900-795-48-120	1900	795	1026	2090	3116	4142	5168
MAPPS 2280-1060-48-120	2280	1060	1231	2508	3739	4970	6202

Note: These systems include a DC to 120 VAC pure sine wave inverter for AC loads

Options	Add -RS for radio shelf for customer load equipment
(Add to Model #)	Add -SL for Sunlight Lighting Controller, timer/photocontrol

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: 1.1 Amps X 12 Volts = 13.2 Watts X 24 hr/day = 316.8 Watt-hr/Day

email: contact@solarelectricsupply.com 877-297-0014 www.solarelectricsupply.com