



## MAPPS Solar Design & Pricing Guide

### MAPPS Design Steps:

#### 1. Calculate your Power Requirements

Determine the Watt-hours per day for all of the equipment you want to power. Consider both continuous and intermittent loads in a 24-hour period. Average over a week if loads change daily. Test the actual power draw of the equipment if you can. For example: 1.2 Watts X 12 Volts = 14.4 Watts X 24 hr/day = 346 Watt-hr/Day

#### 2. Determine your Solar Insolation Zone

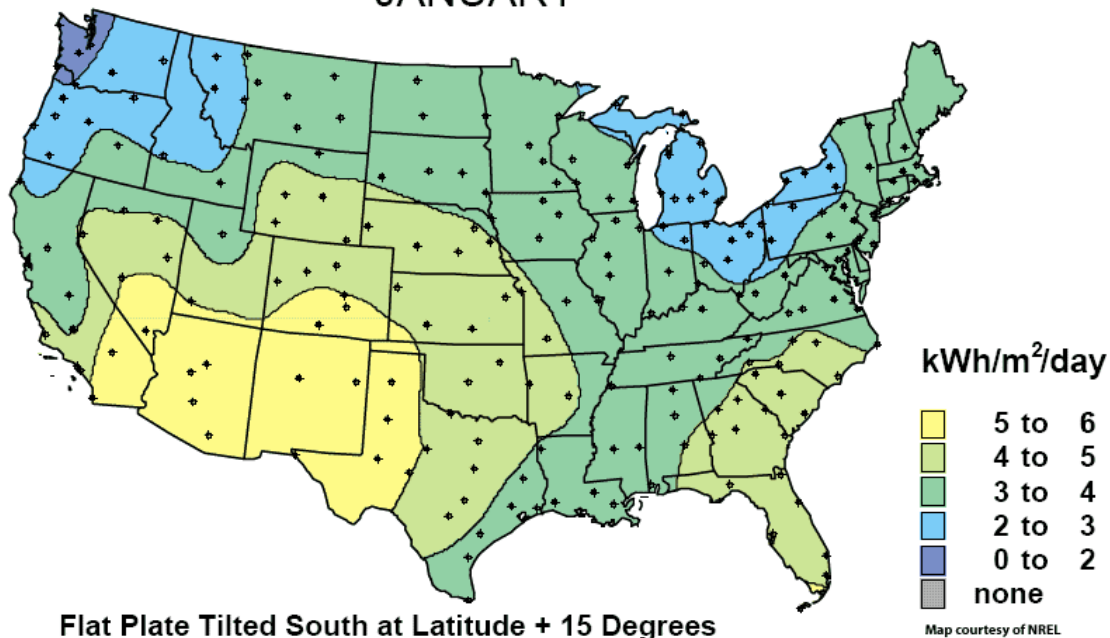
Locate your site on the map below. The map represents average solar energy available in the winter. Available energy increases incrementally from zones 1 through 5.

#### 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.

### Average Daily Solar Radiation Per Month

#### JANUARY





## MAPPS Authorized Price List

<b>12 Volt DC Systems</b>	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	SES	Radio
MAPPS ID Number	Load Whr/d	Load Whr/d	Load Whr/d	Load Whr/d	Load Whr/d	List Price	Shelf Price
MAPPS 20-36-12	13	26	39	51	64	\$ 1,132	n/a
MAPPS 30-58-12	19	38	58	77	96	\$ 1,307	n/a
MAPPS 50-100-12	32	64	96	128	160	\$ 1,550	\$ 1,702
MAPPS 80-108-12	49	98	147	197	246	\$ 1,788	\$ 1,940
MAPPS 80-216-12	49	98	147	197	246	\$ 2,168	\$ 2,649
MAPPS 100-216-12	64	128	192	257	321	\$ 2,515	\$ 2,996
MAPPS 125-216-12	77	153	230	307	383	\$ 2,630	\$ 3,111
MAPPS 160-216-12	98	197	295	393	491	\$ 2,990	\$ 3,472
MAPPS 250-265-12	153	307	460	613	767	\$ 4,341	\$ 4,455
MAPPS 250-530-12	153	307	460	613	767	\$ 5,170	n/a

Note: Radio Shelf option includes ample room for customer load equipment & Polyphaser

<b>24 Volt DC Systems</b>	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	SES	Radio
MAPPS ID Number	Load Whr/d	Load Whr/d	Load Whr/d	Load Whr/d	Load Whr/d	List Price	Shelf Price
MAPPS 40-36-24	26	51	77	103	129	\$ 1,676	\$ 1,817
MAPPS 100-108-24	64	128	192	257	321	\$ 2,451	\$ 2,966
MAPPS 160-108-24	98	197	295	393	491	\$ 2,926	\$ 3,442
MAPPS 250-265-24	153	307	460	613	767	\$ 5,080	n/a
MAPPS 350-265-24	214	428	642	855	1069	\$ 5,390	n/a
MAPPS 350-530-24	214	428	642	855	1069	\$ 9,880	n/a
MAPPS 525-530-24	321	642	962	1283	1604	\$ 11,079	n/a
MAPPS 700-530-24	428	855	1283	1711	2138	\$ 12,273	n/a
MAPPS 1050-1060-24	642	1283	1925	2566	3208	\$ 22,158	n/a

Note: Radio Shelf option includes ample room for customer load equipment & Polyphaser

<b>120 Volt AC Systems</b>	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	SES
MAPPS ID Number	Load Whr/d	Load Whr/d	Load Whr/d	Load Whr/d	Load Whr/d	List Price
MAPPS 50-100-12-120	27	55	82	109	136	\$ 1,864
MAPPS 80-108-12-120	42	84	125	167	209	\$ 2,101
MAPPS 80-216-12-120	42	84	125	167	209	\$ 2,812
MAPPS 100-216-12-120	55	109	164	218	273	\$ 3,160
MAPPS 125-216-12-120	65	130	196	261	326	\$ 3,275
MAPPS 160-216-12-120	84	167	251	334	418	\$ 3,635
MAPPS 250-265-24-120	130	261	391	521	652	\$ 6,625
MAPPS 350-530-24-120	182	364	545	727	909	\$ 10,634
MAPPS 525-530-24-120	273	545	818	1091	1363	\$ 11,832
MAPPS 700-530-24-120	364	727	1091	1454	1818	\$ 13,026
MAPPS 1050-1060-24-120	545	1091	1636	2181	2726	\$ 23,326
MAPPS 1400-795-48-120	727	1454	2181	2908	3635	\$ 28,159

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

Please contact us for design and pricing assistance  
and for government/OEM/Industrial discounts.

**we make solar simple™**

SOLAR ELECTRIC SUPPLY, INC.

7960-B Soquel Dr. Suite 140 Aptos, CA 95003 (831) 462-8243 Ph. (831) 462-8246 Fax