



MAPPS™

Pole Mounted Solar Systems

MAPPS Class I Div II Design & Pricing Steps

1. CALCULATE YOUR POWER REQUIREMENTS

Determine the total Amp-hours per day for all 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.

2. DETERMINE YOUR SOLAR INSOLATION ZONE

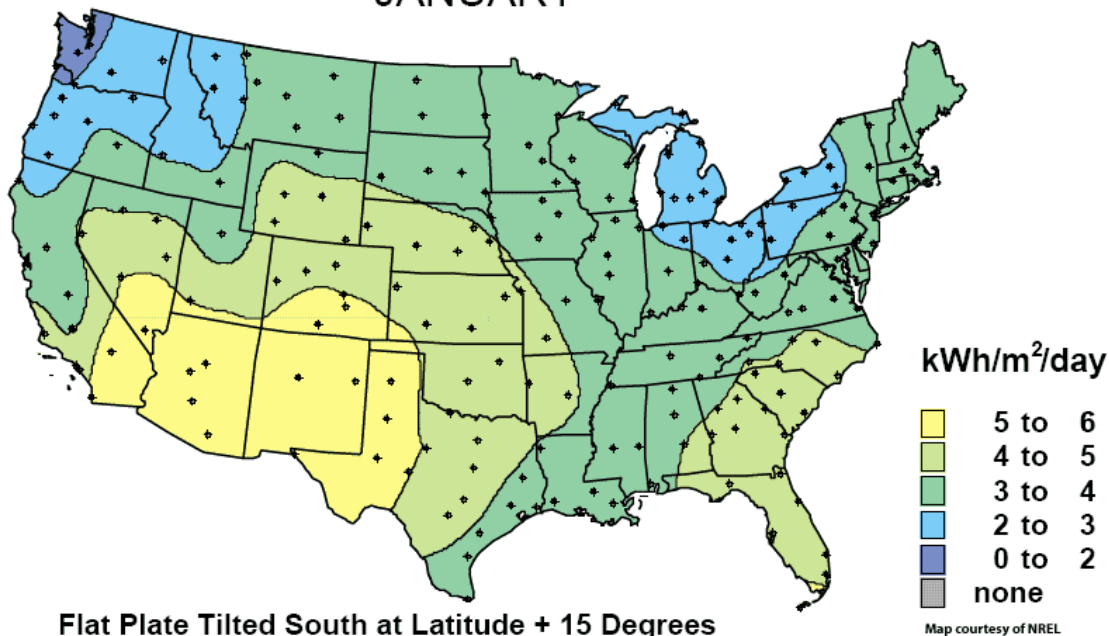
Locate your site on the map below. The map represents average solar energy available in the winter. Available energy increases incrementally from zones 1 through 5.

3. USE THE PERFORMANCE TABLE TO CHOOSE YOUR SYSTEM

The tables below represent the Amp-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 Amp-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



Flat Plate Tilted South at Latitude + 15 Degrees



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MAPPS™ Class I Div II Hazardous Location Rated Authorized Price List (effective 4-3-08)

12 Volt Systems MAPPS ID Number	Array Pwr (W)	Array I _{pv} (A)	Batt Cap. (Ah)	Zone 1 Load (Ah)	Zone 2 Load (Ah)	Zone 3 Load (Ah)	Zone 4 Load (Ah)	Zone 5 Load (Ah)	List Price
MAPPS 20-36-12	20	1.19	36	1.071	2.142	3.213	4.284	5.355	\$ 2,646
MAPPS 50-100-12	50	2.97	98	2.673	5.346	8.019	10.692	13.365	\$ 3,006
MAPPS 80-108-12	80	4.55	108	4.10	8.19	12.29	16.38	20.48	\$ 3,222
MAPPS 80-216-12	80	4.55	216	4.10	8.19	12.29	16.38	20.48	\$ 4,230
MAPPS 160-216-12	160	9.1	216	8.19	16.38	24.57	32.76	40.95	\$ 5,130
MAPPS 160-432-12	160	9.1	432	8.19	16.38	24.57	32.76	40.95	\$ 6,030
MAPPS 240-432-12	240	13.65	432	12.29	24.57	36.86	49.14	61.43	\$ 6,768
MAPPS 320-432-12	320	18.2	432	16.38	32.76	49.14	65.52	81.90	\$ 7,256

24 Volt Systems MAPPS ID Number	Array Pwr (W)	Array I _{pv} (A)	Batt Cap. (Ah)	Zone 1 Load (Ah)	Zone 2 Load (Ah)	Zone 3 Load (Ah)	Zone 4 Load (Ah)	Zone 5 Load (Ah)	List Price
MAPPS 40-36-24	40	1.19	36	1.071	2.142	3.213	4.284	5.355	\$ 4,140
MAPPS 100-108-24	100	2.97	216	2.67	5.35	8.02	10.69	13.37	\$ 4,770
MAPPS 160-108-24	160	4.55	216	4.10	8.19	12.29	16.38	20.48	\$ 5,130
MAPPS 160-216-24	160	4.55	432	4.10	8.19	12.29	16.38	20.48	\$ 6,030
MAPPS 320-216-24	320	18.2	432	16.38	32.76	49.14	65.52	81.90	\$ 7,256

Other MAPPS configurations are available.
Please contact us for design and pricing assistance
and for government/OEM/Industrial volume discounts.

we make solar simple™