



CLASS 1 DIVISION 2 CERTIFIED MAPPS PHOTOVOLTAIC SYSTEMS

SES C1D2 Certified PV Solar Systems Specifications Sheet

To support loads from 1 – 100 watts

For two decades, the Solar Electric Supply team has been providing solar energy solutions to customers just like you, and using our talent and experience to provide a quality solution. We offer a full range of services – from a broad array of products to engineering and design/build capabilities. Our full document control ensures access to your diagrams and records, and our QA/QC procedures ensure a quality system is delivered.

SES MAPPS C1D2 Systems Features

- Enclosures come pre-wired, for quality control, Listing certification and quick installation
- Designed for 2"-4" SCH40 pole mount
- Array sizes: from 50W to 600W
- Battery capacities: from 108AH to 432AH
- System voltage: 12 or 24 volts DC
- Solar modules and regulators are ETL listed and certified
- 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 Certified and are powder coated aluminum for corrosion resistance and include pad lock hasps.
- Electronics are house in a separate compartment
- Circuit breakers are included as a means of disconnect and for short circuit protection
- Systems use C1D2 certified PV Modules



Suited to harsh environments

These safe, reliable, durable, and rugged systems are designed to require minimal maintenance and long life. Twenty-year design life (with battery replacements approximately every five to seven years).

C1D2 System Reliability

C1D2 certified solar electric systems have no moving parts. Solar Electric Supply deals only in modules and components with the highest international standards, such as Underwriters Laboratories (UL) and ETL Intertek listings in the US, and approval by the Commission of the European Communities (CEC) in Europe.

Conforms to:

ISA STD 12.12.01 &
UL STD 508A

Certified to:

CSA STD C22.2 Nos.
213 & 14 Class I Div 2
Hazardous Locations

Class 1, Division 2 Groups
A, B, C, D, T6



Easy deployment

Most systems and components are stocked for quick delivery.

Enclosures are factory assembled and tested for easy and quick field deployment. (Batteries may be field installable.)

Customers around the globe rely on Solar Electric Supply because we deliver:

- Excellent Support
- Superior Integration
- Well recognized, High-quality Products
- Speed of Delivery
- Engineered to NEC, IEEE, and Industry Standards
- Troubleshooting Services

12 VDC C1D2 MAPPS Model	PV Watts	Battery Amp-Hr	List Price
MAPPS 50-108-12 C1D2	50	108	\$6,054
MAPPS 50-216-12 C1D2	50	216	\$6,774
MAPPS 90-108-12 C1D2	90	108	\$6,212
MAPPS 90-216-12 C1D2	90	216	\$6,933
MAP-150-216-12-C1D2	150	216	\$7,371
MAP-150-432-12-C1D2	150	432	\$9,511
MAP-300-216-12-C1D2	300	216	\$8,488
MAP-300-432-12-C1D2	300	432	\$10,628

24 VDC C1D2 MAPPS Model	PV Watts	Battery Amp-Hr	List Price
MAPPS 90-108-24 C1D2	90	108	\$6,947
MAPPS 120-108-24 C1D2	120	108	\$7,198
MAPPS 200-108-24 C1D2	200	108	\$7,602
MAPPS 200-216-24 C1D2	200	216	\$9,741
MAPPS 300-108-24 C1D2	300	108	\$8,504
MAPPS 300-216-24 C1D2	300	216	\$10,643
MAPPS 400-198-24 C1D2	400	216	\$11,068
MAPPS 600-198-24 C1D2	600	216	\$13,028

Standard(s):	Nonincendive Electrical Equipment For Use In Class I And II, Division 2 And Class III, Divisions 1 And 2 Hazardous (Classified) Locations [UL 121201:2017 Ed.9]
	Nonincendive Electrical Equipment For Use In Class I And II, Division 2 And Class III, Divisions 1 And 2 Hazardous (Classified) Locations [CSA C22.2#213:2017 Ed.3]
	Industrial Control Panels [UL 508A:2018 Ed.3+R:06Aug2020]
	Industrial Control Panels and Assemblies [CSA C22.2#286:2017 Ed.2]

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