

POWER SOLUTIONS

300W SOLAR POWER KIT



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The Codan Solar Panel Power Supply Kit provides HF radio operating power and battery charging power solely from the sun's solar energy. This can be independent of any other generator or grid power source. This enables the HF radio to be used and operated from a battery power source in remote locations for extended periods.

HIGH CAPACITY

The 300W solar panel solution provides sufficient charging performance to provide virtually indefinite operation of a battery powered 125W Codan HF radio systems for typical voice and data operation and sunlight conditions. This assumes 24 hour operation with a 9:1 TX:RX ratio and at least 3 hours of full sun per day.

RUGGED AND RELIABLE

The solar power kit and HF radio may be installed in remote places with minimal shelter from harsh environments including high heat, humidity and areas with wide diurnal temperature changes. The solar panel system has in built protection to ensure no damage occurs as a result of incorrect electrical connection or overload conditions.

EASE OF INSTALLATION

The Solar Panel Power Supply Kit comprises three solar PV panels, with bird deterrent spikes on their upper edge, mounted adjacent on a frame with variable tilt angle. The frame base has fixing points to a horizontal surface or roof. Fully detailed installation instructions and basic tools are supplied as part of the kit.

KEY FEATURES

- 300W high capacity
- Monocrystalline panel technology
- Efficient
- Reliable
- Rugged
- High quality regulator
- Mounting frame
- Installation Kit

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SPECIFICATIONS

EMC/EMI System complies with EN 301 489

SPECIFICATIONS FOR SOLAR PANEL

Nominal power	100W
Open circuit voltage	21.86V
Short circuit current	6.10A
Current at peak power	5.38V
Ingress protection	IP76
Storage temperature range	-20 to +80 °C
Operating temperature range	-20 to +60 °C
Humidity rating	0 to 90% non-condensing
Wind rating (panel and frame)	230km/hr
Operational altitude	Up to 2000m
Non-operational altitude	Up to 5000m

SPECIFICATIONS FOR REGULATOR

Regulation voltage	14.1 V for 12V battery system
Current consumption	10mA
Output current	20A max
Operating temperature range	-40 to +85 °C
Ingress protection	IP54

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

ACCESSORIES

Batteries

- 12V 100Ah Gelcell Battery – CPN 65-72003
- 12V 185Ah Gelcell Battery – CPN 65-72004

Battery cables

- Positive terminal paralleling cable – CPN 08-05399-001
- Negative terminal paralleling cable – CPN 08-05399-002

SYSTEM DIAGRAM

