



40W

24Ah
LFP battery

5A
Solar Controller

IP65 / IP67
Enclosure

40 Watt Pole Mountable Solar Panel Kit

with pole mounting fixture and IP65 rated enclosure

FEATURES

Enepower's Small Area Pole Mountable Solar Kits have been designed to provide an all-in-one solution for remotely powering a multitude of low power PV applications.

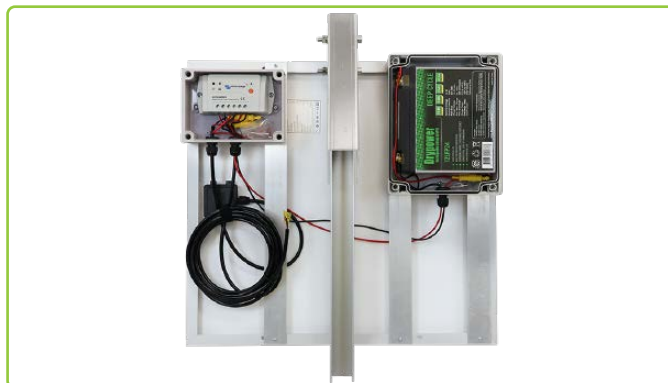
This in-house designed range comes pre-assembled and utilises quality components from renowned manufacturers: Victron Energy, Drypower, Symmetry.

SPECIFICATIONS

Solar Panel Specification	
Rated Power - Pmax (watts)	40W
Max. Power Voltage VMP (V)	18.33V
Max. Power Current IMP (A)	2.19A
Open Circuit Voltage Voc (V)	22.45V
Short Circuit Current Isc (A)	2.31A
Max. System Voltage (V)	1000V
Max Series Fuse Rating (A)	10A
Voc Temp. Coefficients (V/°C)	-0.290%
Isc Temp. Coefficients (A/°C)	+0.048%
Temperature Range	-40°C to +85°C
Cell Technology	Monocrystalline
Number of cells	36
Junction Box	Yes, IP65 Rated
Solar Controller Specification	
Model	SCC010005010
Type	PWM
Voltage	12/24V
Rated Charge Current	5A
Max Solar Voltage	28V
Self Consumption	< 10mA
Load output	Manual control + low voltage disconnect
Protection	Battery reverse polarity (fuse) Output short circuit Over temperature
Grounding	Common positive
Battery Specification	
Model	12LFP24
Voltage	12.8V
Capacity	24Ah
Watt Hour	307.2Wh
Chemistry	LiFePO4
Internal Resistance (at 1KHz)	≤70mΩ
Charge @25°C	Standard Charge Current 4.8A Maximum Charge Current 20A Max Charge Voltage 14.6V
Discharge @25°C	Standard Discharge Current 4.8A Max. Continuous Discharge 20A Cut-off Voltage 8.4V
Cycle Life (±0.5C, 25°C)	100% DoD ≥2000 cycles 80% DoD ≥3000 cycles 50% DoD ≥4000 cycles
Termination	F6 (M5 Bolt)



DIMENSIONS



Dimensions	550 mm (W) x 610 mm (H) x 137 mm (D)
Weight	9.7kgs

All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.



POLE MOUNT SPECIFICATIONS



*Solar Panel & Pole
Not Included

Brand	Symmetry
Mfr. Part No.	SY-PM-40-50W
Installation	Pole (50mm Ø max.) or wall mountable
Tilt	Fully adjustable panel angle to suit most locations
Module size	40 & 50 Watts
Modules up to	540mm wide x 25mm
Standards	Australian / New Zealand Standard on Wind Actions (AS.NZS 1170.2:2011)
Benefits	Designed to reduce assembly costs. Fully waterproof/weatherproof. Practical dimensions with inner mounting centres which are compatible with other housings on the market.

ENCLOSURE SPECIFICATIONS



Brand	Fibox
Mfr. Part No.	TA 241911 enclosure
Operating temperature	-40° → +60°C
Protection rating	IP65 (EN 60529), IK 07 Shockproof (EN 62262)
Body Material	ABS
External Dimensions	240 x 191 x 107.4mm
Benefits	Designed to reduce assembly costs. Fully waterproof/weatherproof. Non-toxic and halogen-free. Practical dimensions with inner mounting centres which are compatible with other housings on the market.



Brand	CAMDENBOSS
Mfr. Part No.	CHDX6-329 enclosure
Operating temperature	-40° → +70°C
Protection rating	IP67, IK08
Body Material	ABS UL94-HB
External Dimensions	175 x 127 x 75mm
Benefits	Screw type lid with knockouts on the base. Moulded in high quality ABS. Pillars in the base can be used for PCB mounting or DIN rail mounting, etc. X6 series meets the requirements of IP67 (equivalent to NEMA 6). IK08 impact tested.

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