



20W

11.4Ah  
LFP battery

5A  
Solar Controller

IP65  
Enclosure

## 20 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)	20W
Max. Power Voltage VMP (V)	18.46V
Max. Power Current IMP (A)	1.09A
Open Circuit Voltage Voc (V)	22.61V
Short Circuit Current Isc (A)	1.15A
Max. System Voltage (V)	1000V
Max Series Fuse Rating (A)	10A
Voc Temp. Coefficients (V/°C)	0.290%
Isc Temp. Coefficients (A/°C)	+0.48%
Temperature Range	-40°C to +85°C
Cell Technology	Monocrystalline
Number of cells	36
Junction Box	Yes, IP65 Rated
Solar Controller Specification	
Model	SCC010005050
Type	PWM
Voltage	12/24V
Output	5A
Max Solar Voltage	28V
Self Consumption	< 10mA
Load output	Manual control + low voltage disconnect +timer
Protection	Battery reverse polarity (fuse) Output short circuit Over temperature
Grounding	Common positive
Battery Specification	
Model	12LFP11.4
Voltage	12.8V
Capacity	11.4Ah
Watt Hour	145.9Wh
Chemistry	LiFePO4
Internal Resistance (at 1KHz)	≤60mΩ
Charge @25°C	Standard Charge Current 2.28A Maximum Charge Current 10A Max Charge Voltage 14.6V
Discharge @25°C	Standard Discharge Current 2.28A Max. Continuous Discharge 10A Cut-off Voltage 10V
Cycle Life (±0.5C, 25°C)	100% DoD ≥2000 cycles 80% DoD ≥3000 cycles 50% DoD ≥4000 cycles
Termination	F2 (Faston 250)



### DIMENSIONS



Dimensions	430mm (W) x 425mm (H) x 135mm (D)
Weight	5.5kgs

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.

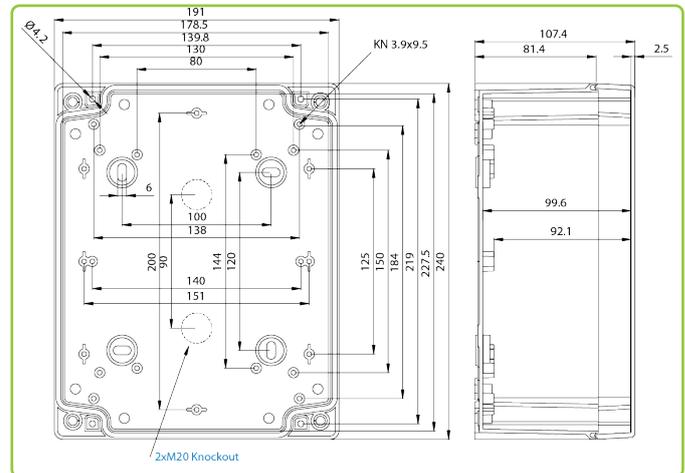


## POLE MOUNT SPECIFICATIONS



Brand	Symmetry
Mfr. Part No.	SY-PM-20-30W
Installation	Pole (50mm Ø max.) or wall mountable
Tilt	Fully adjustable panel angle to suit most locations
Module size	20 & 30 Watts
Modules up to	355mm 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.

## IP65 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.

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