



# ENEPOWER



## POLE MOUNTABLE SOLAR KITS

Pre-assembled and custom solar panel kits



### Convenient, pole mounted solar power solution

The Enepower SMK-ENExx range of small area pole mountable solar kits is designed to provide an all-in-one solution for remotely powering low power PV applications.

Available in 5W, 10W, 20W and 30W configurations, each kit features a high quality Symmetry monocrystalline solar panel mounted onto a galvanised, corrosion resistant tilt adjustable mounting.

Components are pre-assembled in an IP65 rated weatherproof enclosure protecting a Victron Energy solar controller and Drypower lithium battery.



### Power specifications



- High efficiency Symmetry solar panels featuring a 5 busbar construction to deliver greater solar yield.
- Victron Energy solar controller\* providing efficient battery charging.
- Drypower 12.8V\* lithium battery to provide extended service life.
- Long UV rated output cables to adapt to any application.

\*component differs in 5W model.

### Mounting specifications



- Weatherproof resistant IP65 rated enclosure to house components.
- Tilt adjustable galvanised mounting frame to accurately position the panel for optimal sun exposure.
- Pole mountable and suitable for poles up to 50mm OD.
- Also wall mountable for use on buildings or other structures.



## Enepower Solar Kit range specifications

SMK-ENE5W SMK-ENE10W SMK-ENE20W SMK-ENE30W

### Solar Panel Specification

	5W	10W	20W	30W
Rated Power - Pmax (watts)	5W	10W	20W	30W
Max. Power Voltage VMP (V)	18.31V	18.47V	18.46V	18.67V
Max. Power Current IMP (A)	0.26A	0.55A	1.09A	1.61A
Open Circuit Voltage Voc (V)	22.43V	22.63V	22.61V	22.87V
Short Circuit Current Isc (A)	0.3A	0.58A	1.15A	1.7A
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, IP64 Rated			

### Solar Controller Specification

Model		SCC010005050
Type	CH-TSB002PCB	PWM
Voltage	(Turtle digital universal charger)	12/24V
Output		5A
Max Solar Voltage		28V
Self Consumption	Factory programmed specifically for this application - contact us for details.	< 10mA
Load output		Manual control + low voltage disconnect +timer
Protection		Battery reverse polarity (fuse) Output short circuit Over temperature

### Battery Specification

Model	ARB-15920530	12LFP3.8	12LFP11.4	12LFP11.4
Voltage	14.8V	12.8V	12.8V	12.8V
Capacity	3.35Ah	3.8Ah	11.4Ah	11.4Ah
Watt Hour	49.58Wh	48.64Wh	145.92Wh	145.92Wh
Chemistry	Lilon	LiFePO4		
Cycle Life (±0.5C, 25°C)	N/A	100% DoD ≥2000 cycles 80% DoD ≥3000 cycles 50% DoD ≥4000 cycles		



Enepower solar kits are designed as a standard product offering. Please note: These products can be easily modified and tailored to meet your specific usage, size, performance and budget requirements. Changes to solar panel size, battery type (voltage / capacity / chemistry), solar controller type (eg. adding Bluetooth functionality and/or using MPPT) all possible. Please contact your friendly sales engineer to explore options available for you. Contact us.