



Fixed Solar Panels, Folding Solar Panels And Solar Controllers from Enerdrive



Stand Alone / Fixed Solar Range

Enerdrive has a range of Mono-Crystalline panels starting at 10watts and moves up to 20, 55 and 80watts. Larger modules include 130 and 150watt Poly-Crystalline panels.

Each module is typically around 20+vdc open circuit and are well suited to 12v installations (or 24v by series connections of panels). A fly lead cable is provided for connection of the 10 & 20w modules while the 55, 80, 130 & 150w modules have MC4 compatible solar cable connectors included (Enerdrive has spare cables in stock as well).

With a mass of factories developing solar panels around the world, the biggest choice is "Where to buy" & even more importantly "What quality and support am I getting".

Enerdrive can become your single point contact for all things relating to solar products, warranty and importantly that same level of support that we have provided for many years with all Enerdrive products.

If you buy from us you will ALWAYS be dealing with Enerdrive for warranty, and we won't hide behind supplier warranty statements or clauses. Enerdrive's volume will allow us to ensure that any quality or warranty issue can be dealt with LOCALLY.

Folding / Portable Solar Range

Enerdrive offers a great outdoor solution to keep your battery and 12 volt equipment going and going all year round in the sun. The Enerdrive Portable Power Anywhere Solar kit features all the goods you require for portable solar power around your caravan, camp site, mooring or any outdoor activity. Included in the kit is a 10amp Enerdrive Solar controller which is completely waterproof for your peace of mind if you do happen to leave the kit outside.

- ▶ Quality Mono-Crystalline solar panels with solid 35mm double channel aluminium frames
- ▶ Sturdy legs to provide you with the best angle for the panels to the sun
- ▶ 5 meters of easy plug and play battery leads
- ▶ A quality 10amp solar regulator with adjustable flooded or sealed type battery switch modes
- ▶ A strong, durable canvas bag with carry pouch for all accessories
- ▶ Locally supported 2 year product warranty with spare parts on demand

Solar Charge Controllers

For maintenance free protection of your batteries and solar panels the controllers regulated output will prevent batteries overcharging. Load Disconnect (LD) feature will protect batteries from being over discharged.

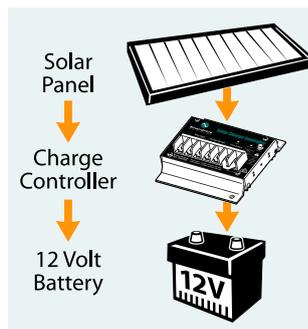
- ▶ 10 & 20 Amp Charge Controllers
- ▶ Protects battery from overcharge and discharge
- ▶ Only for 12 Volt solar panels and batteries
- ▶ Handles up to 20 Amps of Array Current
- ▶ Handles up to 350 Watts of solar power
- ▶ Maintenance free protection of your solar panel and batteries
- ▶ Maintains battery voltage
- ▶ Maintain 12V batteries in a fully charged state
- ▶ LED status indicator provides quick reference to Charger, Battery and load status
- ▶ Selectable battery type
- ▶ Temperature compensation
- ▶ High precision on voltage set-point
- ▶ Wall mountable



FIXED SOLAR PANEL SPECIFICATIONS									FOLDING SOLAR KIT SPECIFICATIONS		
											
Part Number (Type)	SP-EN10W	SP-EN20W	SP-EN40W	SP-EN55W	SP-EN80W	SP-EN120W-5	SP-EN150W	SP-EN200W	SPF-EN120W	SPF-EN160W	
Max Power Pm(W)	10	20	40	55	80	120	150	200	120	160	
Power Tolerance %	±3%	±3%	0% - 3%	±3%	-1% ~ +3%	-1% ~ +3%	±3%	-1% ~ +3%	± 3%	-1% ~ +3%	
Max Power Voltage Vm(V)	16.6	17.6	35.5	18	17.99	17.7	18.8	37.26	18	17.99	
Max Power Current Im(A)	0.613	1.13	1.13	3.05	4.45	6.78	8.01	5.37	6.67	8.9	
Open Circuit Voltage Voc(V)	22.3	22.03	43.1	22.29	22.19	22.5	24.0	43.7	22	22.19	
Short Circuit Current Isc(A)	0.786	1.5	1.85	3.73	4.85	7.45	8.62	6.17	6.88	9.36	
Max System Voltage (VDC)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Dimensions (mm) Fixed	320 x 279 x 30	350 x 541 x 30	567 X 670 X 35	840 x 541 x 35	780 x 660 x 35	1578 x 541 x 35	1482 x 660 x 35	1580 X 800 X 40	N/A		
Dimensions (mm) Folded	N/A									545 x 850 x 85	780 x 670 x 75
Dimensions (mm) Open	N/A									1100 x 850 x 40	780 x 1350 x 35
Weight (kg)	1	3	4.6	5	7.9	10.2	12	15.3	15.5	15.4	
On an average day, you can expect approximately the following amperage into your battery:									SPF-EN120W	SPF-EN160W	
Average daily sun hours									5.5hrs	5.5hrs	
Average daily current to battery									Approx 35 amp hours	Approx 50+amp hours	
Anticipated run time for a typical 50 Litre portable camp fridge (assuming 50% depth of discharge to your 100 amp hour battery)									Up to 3 days	3 days +	
Test Conditions	1000W/m ² , AM1.5, 25°C										

SOLAR CHARGE CONTROLLER SPECIFICATIONS		
		
Model	EN41010	EN41020
Battery voltage	12 Vdc	12 Vdc
Max. PV panel open circuit voltage	26 Vdc	26 Vdc
Maximum charge current	10A	20A
Maximum load current	10A	20A
Maximum load current	20A for 1 minute	40A for 1 minute
Operational Current (no load & no PV)	<10mA	<15mA
Regulated battery charging voltage		
Flooded Battery	14.6 Vdc	14.6 Vdc
Sealed Battery	14.2 Vdc	14.2 Vdc
Voltage across terminal (PV to Battery)	<0.15 Vdc	<0.15 Vdc
Voltage across terminal (Battery to Load)	<0.10 Vdc	<0.10 Vdc
PV Reverse Polarity Protection	Yes	Yes
Battery Overcharge Protection		
Flooded Battery	14.6 Vdc	14.6 Vdc
Sealed Battery	14.2 Vdc	14.2 Vdc
Load Over Discharge Protection	<11.5 Vdc	<11.5 Vdc
Load Reconnected Voltage	12.6 Vdc	12.6 Vdc
Battery Chargers Stages	2 Stage, Bulk, Float	2 Stage, Bulk, Float
Recommended Wire Size	#12 AWG	#10 AWG
Operating temperature	-40° C to 60° C	-40° C to 60° C

SOLAR CHARGE CONTROLLER SPECIFICATIONS (cont.)		
Model	EN41010	EN41020
Dimensions (mm) (L x W x H)	105 x 105 x 34	
Weight	0.3	



Some Basic Tips

- ▶ Keep your panel in direct sunlight as much as possible
- ▶ Secure your Folding Solar Kit from theft around your work or campsite
- ▶ Protect and store your portable folding kit in the most secure place you can to prevent accidental breakage



All Enerdrive products mentioned in this brochure are backed by our locally serviced 2 year warranty with the addition of our 3 year pro-rata warranty.

Dealer: