



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



Stand Alone / Fixed Solar Range

Enerdrive has a range of Mono & Poly Crystalline solar panels from 10 to 2000watts. 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 easy connection of the 10 & 20w panels while the larger panels have MC4 compatible solar cable connectors included. Enerdrive stocks a full range of spare cables.

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.

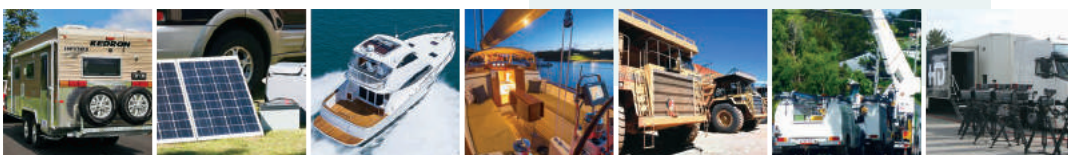
- ▶ Quality Mono-Crystalline solar panels with solid 35mm double channel aluminium frames
- ▶ Sturdy legs to provide you with the best angle for the panels to the sun
- ▶ 5 meters of easy plug and play battery leads
- ▶ A quality 10amp solar regulator with adjustable flooded or sealed type battery switch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






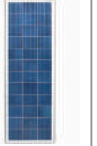

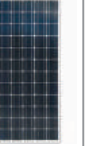






Solar Charge Controllers

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.

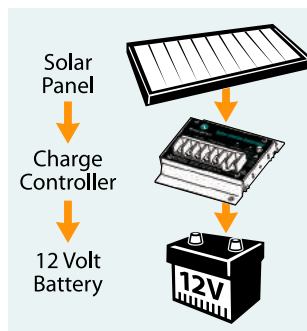
- ▶ 10 & 20 Amp Charge Controllers
- ▶ Protects battery from overcharge and discharge
- ▶ Only for 12 Volt solar panels and batteries
- ▶ Handles up to 20 Amps of Array Current
- ▶ Handles up to 350 Watts of solar power
- ▶ Maintenance free protection of your solar panel and batteries
- ▶ Maintains battery 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-S | 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 | 18 |
| 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 | 22.5 | 22 |
| 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(w) x 570(h) x 85(d) | 670(w) x 780(h) x 75(d) |
| Dimensions (mm) Open | N/A | | | | | | | | 1100 (w) x 570(h) x 40(d) | 1350(w) x 780(h) x 35(d) |
| Weight (kg) | 1 | 3 | 4.6 | 5 | 7.9 | 10.2 | 12 | 15.3 | 11.4 | 15.5 |
| 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/m2 ,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: