

Solawatt Small Area 12V Solar Modules

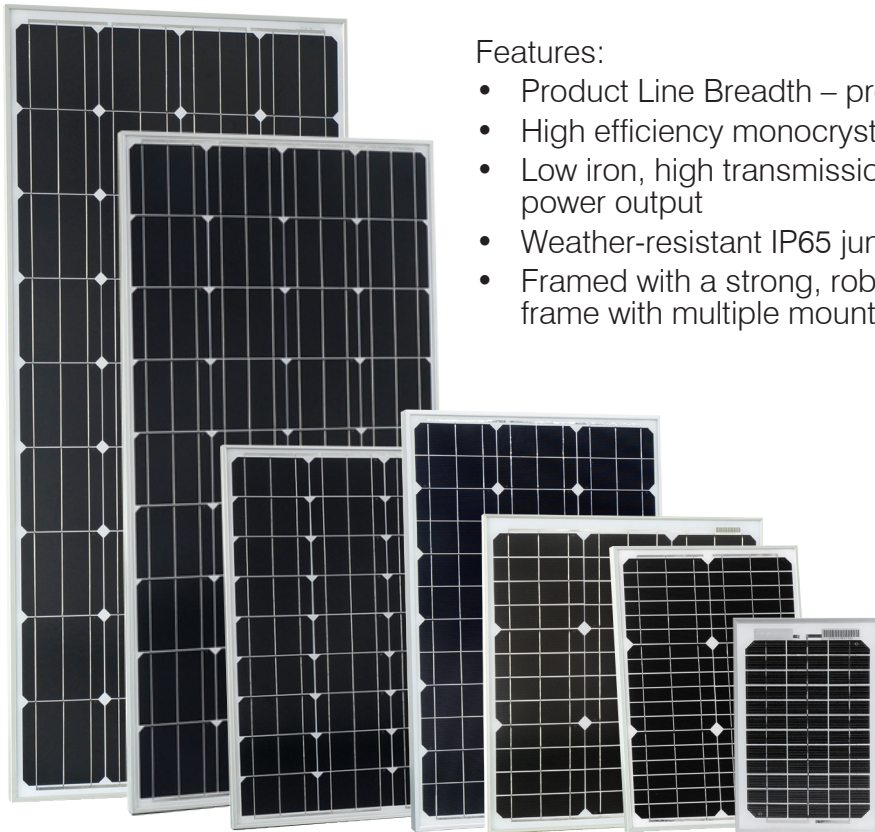
These modules are the ideal solution for industrial power applications as well as 4WD, camping, caravanning, boating and recreational activities wherever power is required for lights, small TV, camping fridge, pump or other small appliances.

Features:

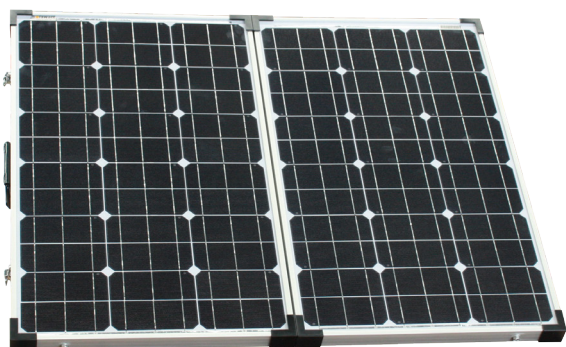
- Product Line Breadth – products range from 5 watts to 160 watts
- High efficiency monocrystalline silicon solar cells.
- Low iron, high transmission glass is used for strength and high-power output
- Weather-resistant IP65 junction box
- Framed with a strong, robust and corrosion-resistant aluminium frame with multiple mounting holes for ease of installation

Applications

- Stand-Alone Power Systems
- Telecommunications
- Telemetry
- Caravans, campervans, boats
- Electric fence energisers
- Battery maintenance
- Outdoor lighting
- Water Pumping



| Model | SW-M5W | SW-M10W | SW-M20W | SW-M30W | SW-M40W | SW-M50W | SW-M60W | SW-M80W | SW-M100W | SW-M160W |
|---|---|-----------|---|-----------|-----------|--|-----------|--|------------|------------|
| Nominal Peak Power Watts | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 160 |
| Cell type | Monocrystalline | | | | | | | | | |
| Cells per module | 3*12 | 4*9 | 2*18 | 2*18 | 3*12 | 3*12 | 3*12 | 4*9 | 3*12 | 4*9 |
| Module size (mm) L x W | 250 x 185 | 335 x 235 | 430 x 345 | 605 x 345 | 550 x 505 | 650 x 505 | 770 x 505 | 770 x 670 | 1200 × 540 | 1475 x 670 |
| Frame depth (mm) | 25mm Note: Junction box protrudes beyond frame by ~2mm | | | | | | 30 | | 35 | |
| Maximum Power Voltage Vmp (V) | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 |
| Maximum Power Current Imp (A) | 0.28 | 0.56 | 1.12 | 1.69 | 2.25 | 2.81 | 3.37 | 4.49 | 5.62 | 8.99 |
| Open circuit voltage Voc (V) | 22.3 | 22.3 | 22.3 | 22.3 | 21.6 | 21.6 | 22.3 | 22.3 | 21.6 | 22.3 |
| Short circuit current Isc (A) | 0.30 | 0.61 | 1.21 | 1.82 | 2.43 | 3.03 | 3.64 | 4.85 | 6.07 | 9.71 |
| Power Output Tolerance-Pmax(%) | +/-3% | | | | | | | | | |
| Operating temperature | -40 to +85°C | | | | | | | | | |
| Max system voltage | 1000V DC | | | | | | | | | |
| Net Weight (kg) | 1kg | 1.2kg | 2kg | 2.5kg | 3.2kg | 4.6kg | 5kg | 6kg | 9kg | 12kg |
| Junction box IP rating | IP65 | | | | | | | | | |
| Diode | 1 bypass diode | | | | | 2 bypass diodes | | | | |
| Connection | Fly models have 8m fly lead | | Openable junction box no cable. Fly models have 5m fly lead | | | Waterproof junction box; 2 x 0.9m long 2.5mm2 cables; with male & female connector | | Waterproof junction box; 2 x 0.9m long 4mm2 cables; with male & female connector | | |
| Accessories | | | | | | Pair of connectors only; SW cables 1M, 4M, 12M fitted with male & female connector | | | | |
| Warranty | Workmanship and materials: 5 years. Power output: at least 90% after 10 years and more than 80% after 25 years. | | | | | | | | | |
| Specifications subject to change without notice | | | | | | | | | | |

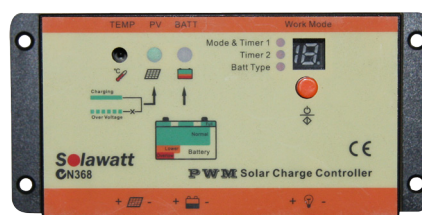


Solawatt folding module kits are designed to provide portable 12 volt power wherever you need it.

Available in 4 sizes from 80W to 200W

Features:

- Padded, moulded carry bag
- Heavy duty carry handle, hinges and clasps
- Sturdy adjustable legs
- Weatherproof solar charge controller with LED indicator
- 5m cable with heavy duty Anderson connectors between module-regulator & regulator-battery clamps
- All cabled up ready to use
- 2 year warranty



These kits are the ideal solution for 4WD, camping, caravanning, boating and recreational activities wherever power is required for lights, small TV, camping fridge, pump or other small appliances.

| Model | SW-FM80W | SW-FM120W | SW-FM160W | SW-FM200W |
|---|-------------------------|----------------|-------------------------|-----------------|
| Nominal Peak Power | 80W (2 x 40W) | 120W (2 x 60W) | 160W (2 x 80W) | 200W (2 x 100W) |
| Power tolerance | +/-3% | | | |
| Cell type | Monocrystalline | | | |
| Open circuit voltage (Voc) | 21.6V | | | |
| Voltage at maximum power (Vmp) | 17.6V | 17.5V | 17.5V | 17.5V |
| Short circuit current (Isc) | 4.9A | 7.4A | 9.88A | 12.34A |
| Current at maximum power (Imp) | 4.54A | 6.86A | 9.14A | 11.42A |
| Maximum system voltage | 600VDC | | | |
| NOCT (Nominal Operating Cell Temperature) | 45°C +/-2°C | | | |
| Operating temperature - module | -40°C to +85°C | | | |
| Operating temperature – charge | -35°C to +55°C | | | |
| Module folded size (mm) in carry bag | 505x550x60 | 505x825x80 | 505x1005x70 | 670x1005x70 |
| Module open size (mm) | 1014x550x30 | 1014x825x35 | 1014x1005x35 | 1344x1005x35 |
| Module net weight (kg) | 9.2 | 13.0 | 15.2 | 19.0 |
| Module gross weight (kg) | 11.0 | 16.0 | 19.4 | 23.2 |
| Solar charge controller | PWM 12V 10A; IP66 rated | | PWM 12V 20A; IP66 rated | |