

## Monocrystalline and polycrystalline PV modules High efficiency and performance

### Features

- » High conversion efficiency based on innovative photovoltaic technologies.
- » High reliability with guaranteed  $\pm 3\%$  power output tolerance.
- » Withstand high wind-pressure and snow load, and extreme temperature variations.
- » Sturdy, clear-anodized aluminum frame with pre-drilled holes for quick installation.
- » Advanced EVA encapsulation with triple-layer back sheet, meets the most stringent safety requirements for high-voltage operation.
- » Pre-wired junction box equipped with connectors.
- » Reliable bypass diodes to prevent overheating (hot spot effect) and to minimise power loss by shading.
- » Manufactured in ISO 9001:2000 certified factory.

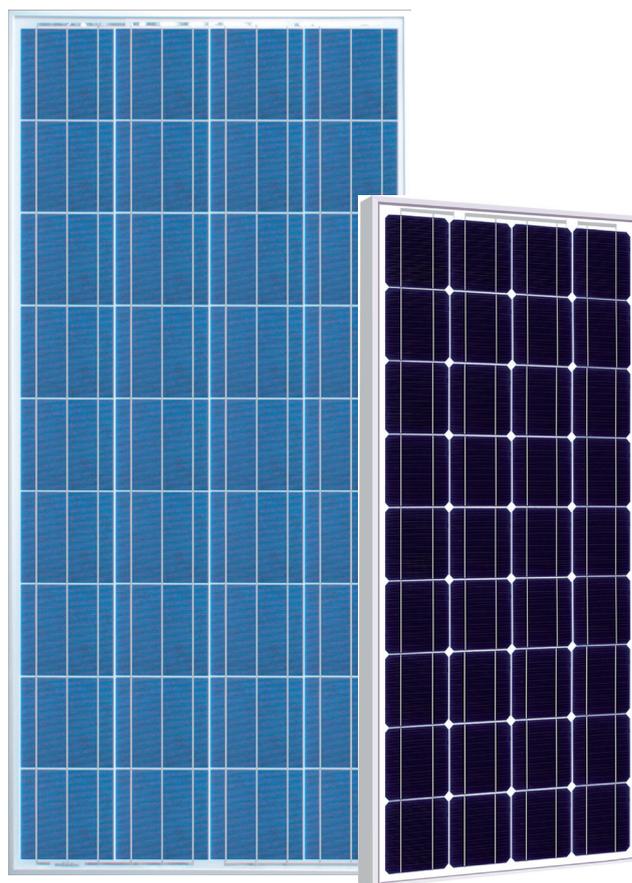
### Applications

- » Off-grid and On-grid applications.
- » Solar home systems.
- » Street, camp and remote lighting areas.
- » Microwave/radio repeater stations.
- » Battery charging.
- » Water pumping and water purification systems.

### Other features

Technology than yields improvements to BSF structure and anti-reflective coating to increase conversion efficiency.

Unique design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces.

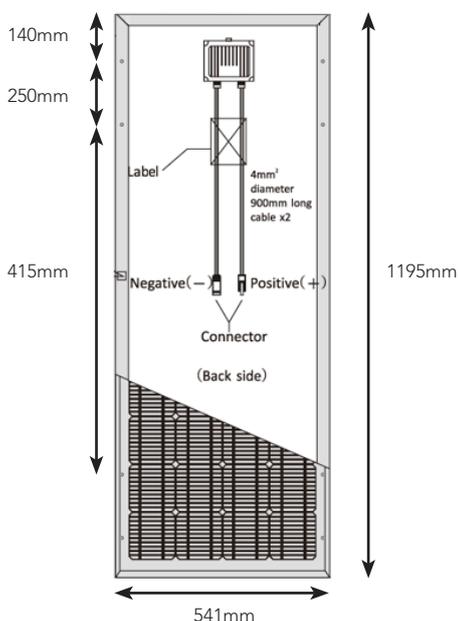


## SYP60S-M | SYP80S-M | SYP140S | SYP150S

Model	SYP60S-M	SYP80S-M	SYP140S	SYP150S
Technology	Mono	Mono	Poly	Poly
Pm (Wp)	60W	80W	140W	150W
Tolerance (%)	± 3%	± 3%	± 3%	± 3%
Vm (V)	16,8	17,2	18,1	19,4
Im (A)	3,57	4,65	7,72	8,17
Voc (V)	21	21,6	22,1	22,3
Isc (A)	3,86	5	8,32	8,65
Maximum system voltage (VDC)	1000	1000	1000	1000
Cells	36 x5"	36 x5"	36 x6"	36 x6"
Temp. Coef. Voc	0,37% /°C	0,37% /°C	0,39% /°C	0,39% /°C
Temp. Coef. Isc	+0,02% /°C	+0,02% /°C	+0,033% /°C	+0,033% /°C
Temp. Coef. Pm	-0,44% /°C	-0,44% /°C	-0,44% /°C	-0,44% /°C
Height (mm)	1195	1195	1480	1480
Width (mm)	541	541	680	680
Deep (mm)	30	30	35	35
Weight (mm)	8	8	12	12
IP	65	65	65	65
CE standard	Yes	Yes	Yes	Yes

Data sheet tested by BERGER module simulator at STC, STC:AM 1.5,1000W/m2, 25°C. Performance test data made for each module. Plugs type Multicontact MC4.

SYP60S-M / SYP80S-M



SYP140S/150S

