

Monocrystalline Solar Panel

440W-450W-460W

CAMEL

Series



High-efficiency solar cells to maintain solar panel efficiency at 21.25%.



Lower LID attenuation.



Excellent performance under weak light conditions.



Excellent temperature coefficient characteristics.



Premium materials ensure reliability.



100% EL testing ensures top quality.



Extreme environment durability certified by TUV.



Custom specifications available.

■ Product Details



- Anodized aluminum frame withstands corrosion and damage.
- Special drainage openings reduce damage from freezing water.



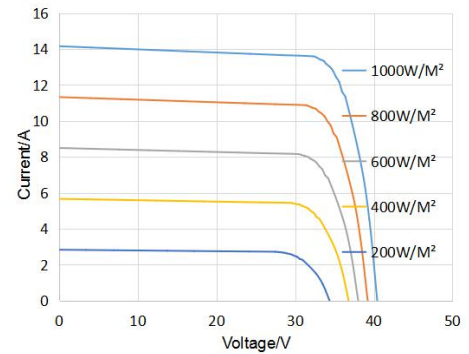
- IP67 junction box for long-term weather endurance.



■ Electrical Characteristics

Model No.	SW440M	SW450M	SW460M
Maximum power (Pmax)	440W	450W	460W
Max-power voltage (Vmp)	33.72V	33.91V	34.2V
Max-power current (Imp)	13.05A	13.27A	13.45A
Open-circuit voltage (Voc)	39.79V	40.01V	40.36V
Short-circuit current (Isc)	13.73A	13.85A	14.01A
Module efficiency	20.33%	20.79%	21.25%
Operating temperature	-40°C~+85°C		
Maximum system voltage	1500Vdc		
Maximum series fuse rating	25A		
Power tolerance	±3%		
*STC condition: 1000 W/m ² , 1.5AM and 25°C cell temperature.			

I-V Curve



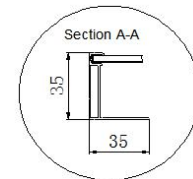
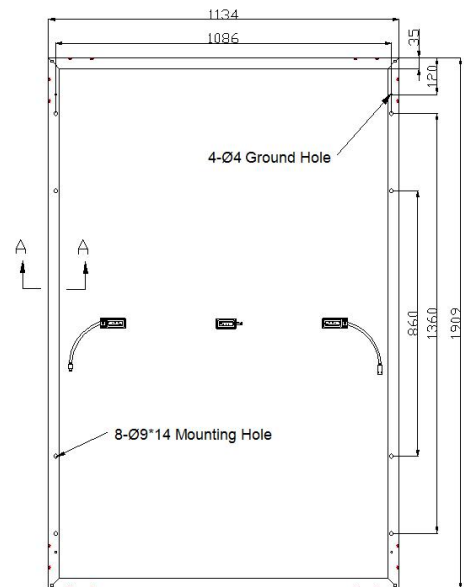
■ Temperature Characteristics

NOCT	46°C±2°C
Temperature co-efficient of Pmax	-0.36%/°C
Temperature co-efficient of Voc	-0.28%/°C
Temperature co-efficient of Isc	0.048%/°C

■ Mechanical Characteristics

Mono power	440W/450W/460W
Cell type	monocrystalline
Cell arrangement	120(6*20)
Dimensions	1909*1134*35mm
Weight	24.5kg
Front cover	3.2mm tempered glass
Frame material	anodized aluminium alloy
Junction box	IP67 rated
Output cables	4mm ² , length: (+) 300mm/ (-) 300mm

Dimensions



■ Packing

Container	40'HC
Pieces/pallet	31
Pieces/Container	744

■ Warranty

- 25 years of linear power warranty.
- 10 years workmanship warranty.

ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018 certified manufacturer.

