

# HIGH ENERGY YIELD RELIABILITY DURABILITY

## MONO-CRYSTALLINE PV MODULES HALF-CELLS MONO-FACIAL 450W - 460W

### MONO-CRYSTALLINE PV MODULES

## EG-120L Series 450W-460W

- 120 HALF CELLS**
- LID RESISTANT**
- PID RESISTANT**
- SALT CORROSION RESISTANT**
- SAND RESISTANT**
- NH<sub>3</sub> AMMONIA RESISTANT**
- HIGHLY STABLE AND TOUGH**

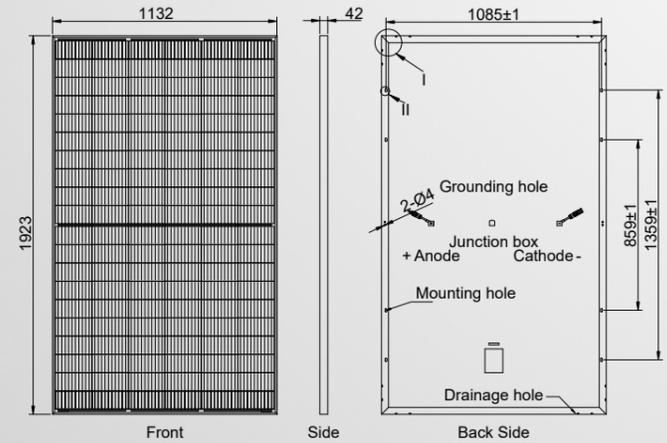


**30** Years  
Performance  
Guarantee

**15** Years  
Product  
Warranty

#### Mechanical and design specification

Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm
No. of cells	120
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP 68 rated
Frame	42 mm anodized Aluminium alloy
Cable	1 x 4 mm <sup>2</sup> , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1923 mm x 1132mm x 42 mm
Weight	24 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m <sup>2</sup>
Mechanical load	5400 Pa/ 550 kg/ m <sup>2</sup>

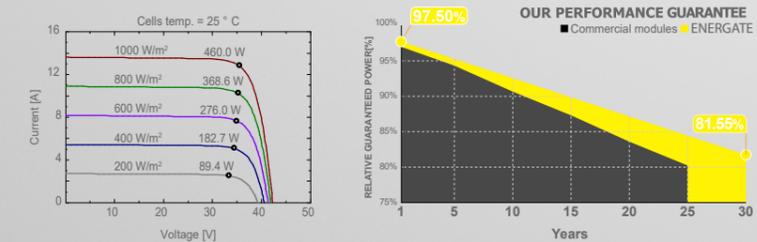


#### Packaging information

Packaging configuration	24 Pallets - 27 pcs per pallet
Loading capacity	648 pcs / 40 HQ
Size / Pallet	1950mm x 1140 mm x 2600 mm
Weight	16224 kg / 40 HQ

#### Temperature ratings

Operating temperature (°C)	-40 to +85
Temp.coefficient of P <sub>max</sub> (%/°C)	-0.35
Temp.coefficient of V <sub>oc</sub> (%/°C)	-0.275
Temp.coefficient of I <sub>sc</sub> (%/°C)	0.045
Nom. operating temp. NOCT (°C)	45 ± 2



Electrical specifications (STC*):	EG-120L 450W	EG120L 455W	EG-120L 460W
Nominal Max. Power P <sub>max</sub> (Wp)	450	455	460
Maximum operating voltage V <sub>MPP</sub> (V)	34.70	34.90	35.04
Maximum operating current I <sub>MPP</sub> (A)	13.00	13.05	13.154
Open-circuit voltage V <sub>oc</sub> (V)	41.21	41.51	41.65
Short-circuit current I <sub>sc</sub> (A)	13.66	13.82	13.851
Module efficiency η (%)	20.60	20.80	21.1
Power tolerance (W)		0~+5	
Maximum system Voltage (V)		1500	
Maximum series fuse rating (A)		25	

Electrical specifications (NMOT*):	EG-120L 450W	EG120L 455W	EG-120L 460W
Nominal Max. Power P <sub>max</sub> (Wp)	367.3	371.2	375.4
Maximum operating voltage V <sub>MPP</sub> (V)	28.32	28.47	28.60
Maximum operating current I <sub>MPP</sub> (A)	10.61	10.65	10.73
Open-circuit voltage V <sub>oc</sub> (V)	33.63	33.86	33.99
Short-circuit current I <sub>sc</sub> (A)	11.14	11.27	11.30

\*STC: Standard test conditions (Irradiance 1000 W/m<sup>2</sup>, Cell temperature 25°C and air mass of AM1.5)

\*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m<sup>2</sup>, Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.



IEC 61215  
IEC 61730  
Regular Production Surveillance  
Type Tested and Monitored

IEC 62716 (Ammonia corrosion)  
IEC 61701 (Salt mist corrosion)  
IEC 60068 (Sand and dust)  
IEC 62804 (PID resistance)

