

HIGH

ENERGY YIELD
RELIABILITY
DURABILITY

MONO-CRYSTALLINE PV MODULES HALF CELLS MONO-FACIAL

530W - 550W

MONO-CRYSTALLINE PV MODULES

EG-144L Series 530W-550W

- 144**
HALF
CELLS
- LID
RESISTANT
- PID
RESISTANT
- SALT CORROSION
RESISTANT
- SAND
RESISTANT
- NH₃**
S
AMMONIA
RESISTANT
- HIGHLY STABLE
AND TOUGH



30
Years
Performance
Guarantee

15
Years
Product
Warranty

Mechanical and design specification

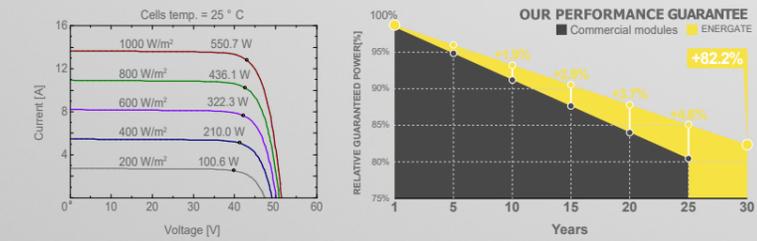
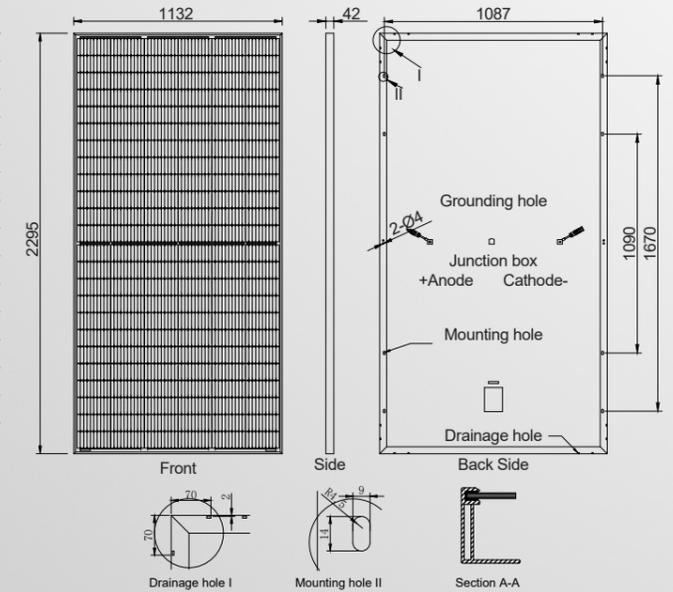
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm
No. of cells	144
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	EVA
Back cover	White backsheet
Junction box	IP 68 rated
Frame	42 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	2295 mm x 1132 mm x 42 mm
Weight	27 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa/ 244 kg/ m ²
Mechanical load	5400 Pa/ 550 kg/ m ²

Packaging information

Packaging configuration	20 Pallets - 27 pcs per pallet
Loading capacity	540 pcs / 40 HQ
Size / Pallet	2323 mm x 1100 mm x 1296 mm
Weight	15700 kg / 40 HQ

Temperature ratings

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



Electrical specifications (STC*):	EG-144L 530W	EG-144L 535W	EG-144L 540W	EG-144L 545W	EG-144L 550W	
Nominal Max. Power	P _{max} (Wp)	530	535	540	545	550
Maximum operating voltage	V _{MPP} (V)	41.70	41.93	42.15	42.38	42.57
Maximum operating current	I _{MPP} (A)	12.71	12.76	12.81	12.86	12.92
Open-circuit voltage	V _{oc} (V)	49.65	49.78	49.90	50.01	51.44
Short-circuit current	I _{sc} (A)	13.47	13.52	13.57	13.62	13.67
Module efficiency	η (%)	20.40	20.60	20.80	21.00	21.20
Power tolerance	(W)			0~+5		
Maximum system Voltage	(V)			1500		
Maximum series fuse rating	(A)			25		

*STC: Standard test conditions (Irradiance 1000 W/m², Cell temperature 25°C and air mass of AM1.5)

Electrical specifications (NMOT*):	EG-144L 530W	EG-144L 535W	EG-144L 540W	EG-144L 545W	EG-144L 550W	
Nominal Max. Power	P _{max} (Wp)	400	403	407	410	414
Maximum operating voltage	V _{MPP} (V)	39.30	39.50	39.70	39.90	40.10
Maximum operating current	I _{MPP} (A)	10.17	10.21	10.25	10.29	10.34
Open-circuit voltage	V _{oc} (V)	47.00	47.20	47.40	47.60	47.80
Short-circuit current	I _{sc} (A)	10.78	10.82	10.86	10.90	10.94

*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m², 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)

