

HIGH

ENERGY YIELD
RELIABILITY
DURABILITY

MONO-CRYSTALLINE PV MODULES
HALF CELLS-BIFACIAL-DOUBLE GLASS

440W - 460W

MONO-CRYSTALLINE PV MODULES

EG-120L Series
440W-460W

120
HALF
CELLS



30
Years
Performance
Guarantee

15
Years
Product
Warranty

Mechanical and design specification

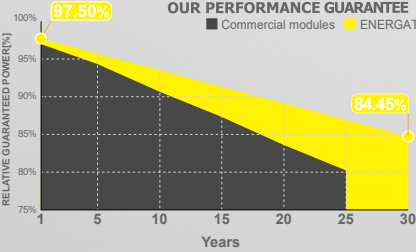
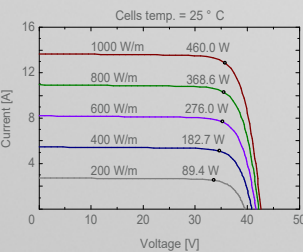
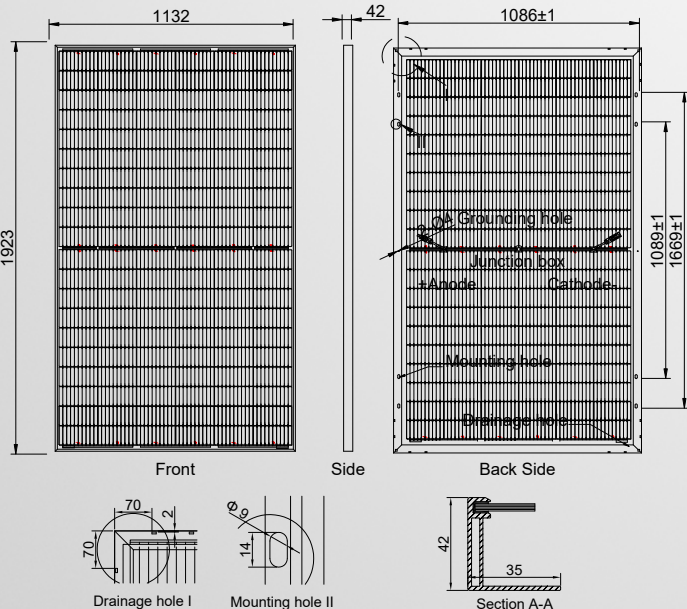
Cell type	Gallium-doped Mono c-Si PERC, Half-cut cells, 182 mm
No. of cells	120
Bifaciality	70±5%
Glass	3.2 mm, high transmission, AR coated, tempered
Encapsulation	POE
Back cover	2.0 mm, high transmission solar glass, tempered
Junction box	IP 68 rated
Frame	42 mm anodized Aluminium alloy
Cable	1 x 4 mm ² , 1300 mm length or customized
Connectors	MC 4 / MC 4 compatible
Dimension	1923 mm x 1132 mm x 42 mm
Weight	28 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	27 pcs per pallet
Loading capacity	648 pcs / 40 HQ
Size / Pallet	1945 mm x 1140 mm x 2490 mm
Weight	17000 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-120DG 440W	EG-120DG 445W	EG-120DG 450W	EG-120DG 455W	EG-120DG 460W
Nominal Max. Power	P _{max} (Wp)	440	445	450	455	460
Maximum operating voltage	V _{MPP} (V)	34.62	34.87	35.13	35.38	35.60
Maximum operating current	I _{MPP} (A)	12.71	12.76	12.81	12.86	12.92
Open-circuit voltage	V _{oc} (V)	41.35	41.66	41.98	42.29	42.60
Short-circuit current	I _{sc} (A)	13.47	13.52	13.57	13.62	13.67
Module efficiency	η (%)	20.42	20.65	20.88	21.11	21.35
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-120DG 440W	EG-120DG 445W	EG-120DG 450W	EG-120DG 455W	EG-120DG 460W
Nominal Max. Power	P _{max} (Wp)	331	335	338	342	345
Maximum operating voltage	V _{MPP} (V)	32.60	32.80	33.00	33.20	33.40
Maximum operating current	I _{MPP} (A)	10.17	10.21	10.25	10.29	10.34
Open-circuit voltage	V _{oc} (V)	38.80	39.00	39.20	39.40	39.60
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)

