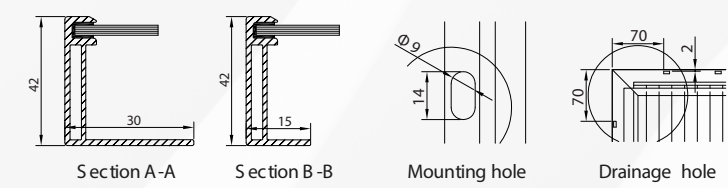
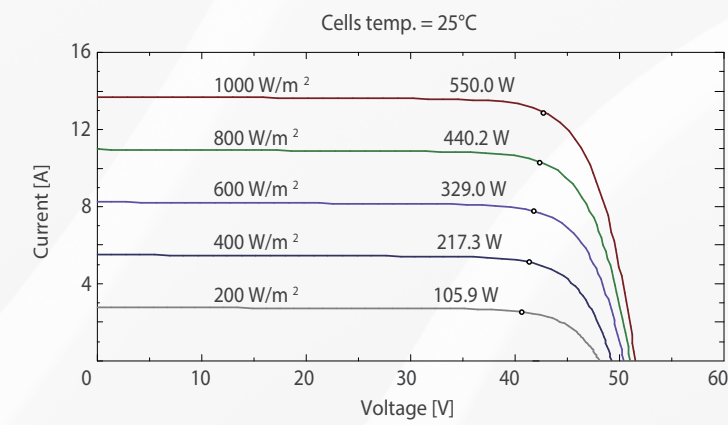
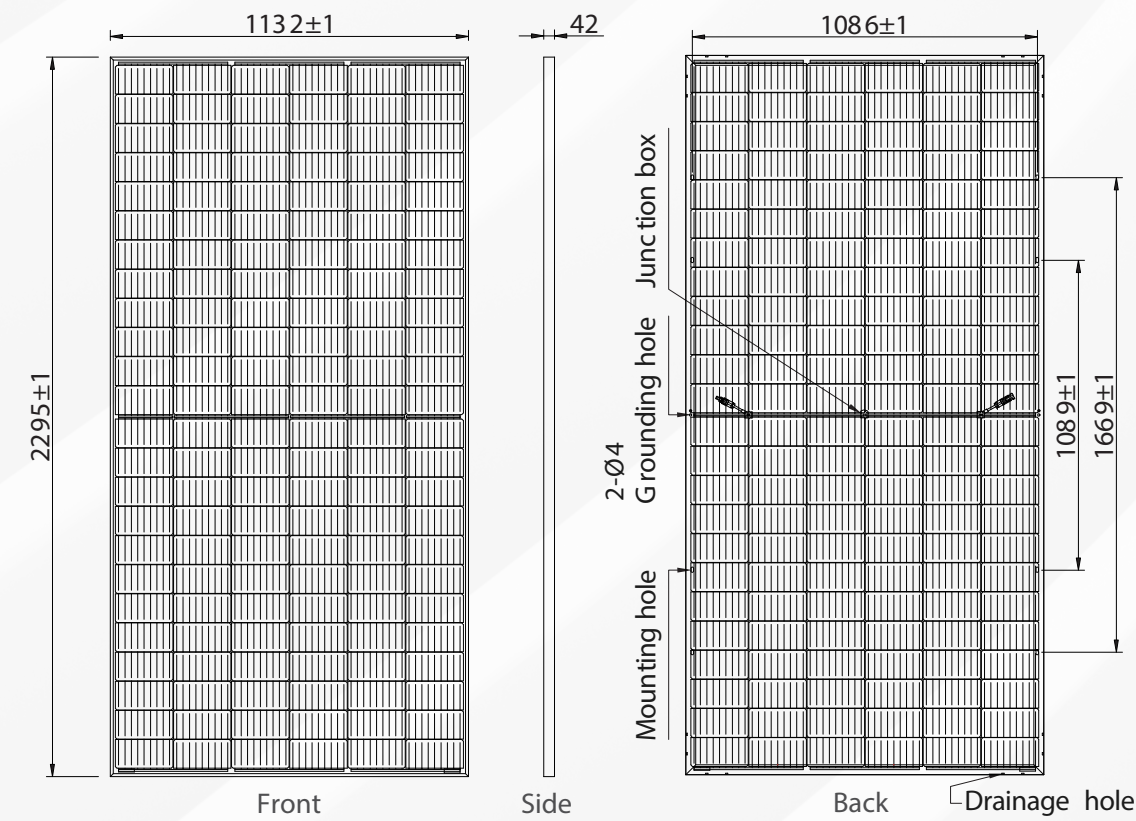


ECO-72MP 530W-550W

P_nTYPE PERC TECHNOLOGY PV MODULE



Electrical specifications (STC*):

	P _{max} (Wp)	530	535	540	545	550
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 (%)	20.53	20.73	20.92	21.12	21.31
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), measurement tolerance P_{max}: ±3%

Electrical specifications (NMOT*):

	P _{max} (Wp)	400	403	407	410	414
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)

Bifacial electrical specifications

Max. power front-side P _{max front} (Wp)	530	535	540	545	550
Backside power gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Total equivalent power P _{max equ} (Wp)	557 583	562 589	567 594	572 600	578 605
Module efficiency η (%)	21.56 22.59	21.77 22.80	21.97 23.01	22.17 23.23	22.38 23.44

*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on the mounting (structure, height, tilt angle, etc.) and albedo of the ground.

Mechanical and design specification

Cell type	Gallium-doped mono c-Si PERC, half-cut cells
No. of cells	144
Bifaciality	70 ± 5%
Front cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	POE / EVA
Back cover	Backsheet or 2.0 Tempered Glass
Junction box	IP68 rated, 3 bypass diodes
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	31 kg
Hail resistance	Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m ²
Snow load	5400 Pa or 550 kg/m ²

Temperature ratings

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

Packaging information

Packaging configuration	27 pcs / pallet
Loading capacity	720 pcs / 40 HQ
Size / Pallet	2310 mm x 1140 mm x 1245 mm
Weight	1160 kg / pallet

