

HALF-CELL BIFACIAL MODULE

TYPE: Bi PERC 570-590W



STOREPOWER

POWER OUTPUT

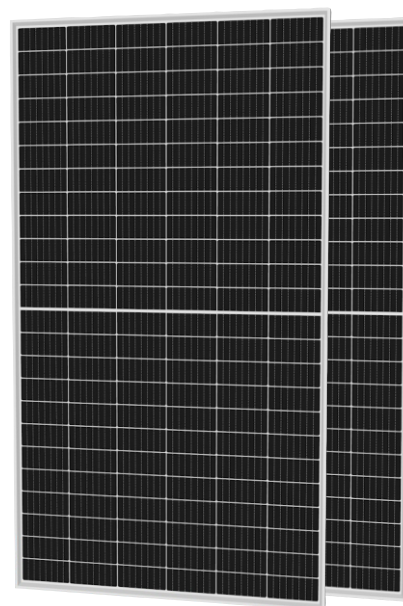
570-590W

MAX EFFICIENCY

21.1%

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm
No. of Cells	156 (6 × 26)
Dimensions	2465 × 1134 × 35 mm (97.0 × 44.6 × 1.4 inches)
Weight	35.5 kgs (78.3 lbs.)
Front\ Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass
Output Cables	4.0 mm ² (-) 350 mm and (+) 160 mm in length or customized length
Junction Box	IP68 rated (3 bypass diodes)
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(70 ± 5)%
Packing Configuration	Packaging box dimensions (mm) : 2495×1130×1269 Packaging box weight (kg) : 1176 31 Pieces per pallet 558 Pieces per container / 40 ' HC



Electrical Characteristics

Module Type	Bi PERC 590W		Bi PERC 585W		Bi PERC 580W		Bi PERC 575W		Bi PERC 570W	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	590	445.4	585	441.7	580	438.0	575	434.3	570	430.5
Optimum Operating Voltage(Vmp/V)	45.36	41.9	45.18	41.7	45.00	41.6	44.82	41.4	44.64	41.2
Optimum Operating Current (Imp/A)	13.01	10.63	12.95	10.58	12.89	10.54	12.83	10.49	12.77	10.44
Open Circuit Voltage (Voc/V)	53.79	50.5	53.61	50.4	53.44	50.2	53.26	50.0	53.08	49.9
Short Circuit Current (Isc/A)	13.91	11.18	13.85	11.13	13.79	11.09	13.73	11.04	13.67	10.99
Module Efficiency (%)	21.1		20.9		20.7		20.6		20.4	

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.050%/°C

Different Rearside Power Gain

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	609.0	667.0	725.0
Optimum Operating Voltage (Vmp/V)	45.0	45.0	45.1
Optimum Operating Current (Imp/A)	13.53	14.82	16.11
Open Circuit Voltage (Voc/V)	53.4	53.4	53.5
Short Circuit Current (Isc/A)	14.48	15.86	17.24
Module Efficiency (%)	21.8	23.9	25.9

