

## PV580-600PERC

# 580-600 Watt

210 mm 120 Cells Bifacial PV Module



### Different Rearside Power Gain

Refer. Bifaciality Factor	(70 ± 5)%		
Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	619.5	678.5	737.5
Optimum Operating Voltage (Vmp/V)	34.25	34.25	34.35
Optimum Operating Current (Imp/A)	18.09	19.81	21.54
Open Circuit Voltage (Voc/V)	41.5	41.5	41.6
Short Circuit Current (Isc/A)	19.13	20.95	22.78
Module Efficiency (%)	21.9	24.0	26.1

### Electrical Characteristics

Module Type	PV580TOPC		PV585TOPC		PV590TOPC		PV595TOPC		PV600TOPC	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	580	437.5	585	441.4	590	445.0	595	448.9	600	452.5
Open Circuit Voltage (Voc/V)	41.05	38.7	41.25	38.9	41.45	39.1	41.65	39.2	41.85	39.4
Short Circuit Current (Isc/A)	18.13	14.59	18.18	14.63	18.22	14.66	18.27	14.7	18.31	14.73
Optimum Operating Voltage (Vmp/V)	33.85	31.7	34.05	31.9	34.25	32.0	34.45	32.2	34.65	32.4
Optimum Operating Current (Imp/A)	17.14	13.81	17.19	13.86	17.23	13.89	17.28	13.94	17.32	13.97
Module Efficiency (ηm/%)	20.5		20.7		20.8		21.0		21.2	
Power Tolerance	0/+5 W									
Maximum System Voltage	1500 VDC (IEC)									
Maximum Series Fuse Rating	30 A									

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerances of Pmax, Voc and Isc are within +/- 3%.

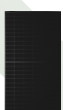
### Mechanical Specifications

Solar Cells	Monocrystalline 210 mm (6x20 pcs)
Front/Back Glass	2.0+2.0 mm semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4 mm <sup>2</sup> , 160 mm (+), 350 mm (-)
Connectors	MC4 compatible

### 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
Operating Temperature	-40°C to +85 °C

### Customization Options



Full black



Custom cable length



Custom connectors

### Packing Configuration

Panel Size	2172 x 1303 x 35 mm
Panel Weight	37.1 kg
Container	40'HC
Pieces per Pallet	31
Pallets per Container	18
Pieces per Container	558