



## PV545-580TOPC

# 545-580 Watt

182 mm 144 Cells Bifacial PV Module



### Different Rearside Power Gain

Refer. Bifaciality Factor	(70 ± 5)%		
Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	588.0	644.0	700.0
Optimum Operating Voltage (Vmp/V)	50.77	50.79	50.80
Optimum Operating Current (Imp/A)	14.81	16.21	17.62
Open Circuit Voltage (Voc/V)	42.05	42.08	42.09
Short Circuit Current (Isc/A)	13.98	15.31	16.64

### Electrical Characteristics

Module Type	PV545TOPC		PV550TOPC		PV555TOPC		PV560TOPC		PV565TOPC		PV570TOPC		PV575TOPC		PV580TOPC	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	545	408	550	412	555	416	560	421	565	425	570	429	575	432	580	436
Open Circuit Voltage (Voc/V)	50.04	47.53	50.18	47.66	50.32	47.79	50.67	48.13	50.87	48.32	51.07	48.51	51.27	48.70	51.27	48.89
Short Circuit Current (Isc/A)	13.90	11.16	13.98	11.25	14.06	11.32	14.13	11.41	14.19	11.46	14.25	11.50	14.31	11.55	14.31	11.60
Optimum Operating Voltage (Vmp/V)	41.33	38.91	41.48	39.03	41.64	39.15	41.96	39.39	42.15	39.52	42.30	39.65	42.45	39.78	42.45	39.87
Optimum Operating Current (Imp/A)	13.19	10.48	13.26	10.56	13.33	10.62	13.35	10.89	13.41	10.75	13.48	10.81	13.55	10.87	13.55	10.94
Module Efficiency (ηm/%)	21.10		21.29		21.48		21.68		21.87		22.07		22.26		22.45	
Power Tolerance	0/+4.99 W															
Maximum System Voltage	1500 VDC (IEC /UL)															
Maximum Series Fuse Rating	25 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	N-Type 16 BB 182 mm (2x72 pcs)
Front/Back Glass	AR Coated 2+2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4 mm <sup>2</sup> , 1200 mm (+), 1200 mm (-)
Connectors	MC4 compatible

### Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45±2 °C
Temperature Coefficient of Pmax	-0.290%/ °C
Temperature Coefficient of Voc	-0.250%/ °C
Temperature Coefficient of Isc	+0.045%/ °C
Operating Temperature	-40°C to +85 °C

### Customization Options



Full black



Custom cable length



Custom connectors

### Packing Configuration

Panel Size	2278 x 1134 x 35 mm	
Panel Weight	32 kg	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	4	20
Pieces per Container	124	620