

9BB



Black Frame Design  
More Aesthetic  
effect on roof



100% TEST

Double EL tests  
ensures high  
quality standard



Reduced hot spot risk  
with optimized  
electrical design and  
lower operating current



Monocrystalline PERC  
Half cut cells



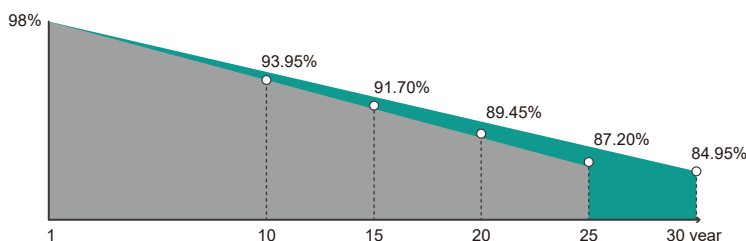
Positive Power tolerance  
0~+5W extra output power



Anti-PID  
Low LID Performance

# 590~605W

182mm 156Cells Panda Series Black Solar Module



## Quality Guarantee

**12-Year**  
material & technology warranty  
**30-Year**  
linear power output warranty

- SUNWE solar linear power output guarantee
- Standard linear power output guarantee

# SW590~605PD

182mm 156Cells Panda Series Black Solar Module



## Electrical Characteristics (STC/NOCT)

Module Type	SW590PD		SW595PD		SW600PD		SW605PD	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	590W	435W	595W	438W	600W	442W	605W	446W
Open Circuit Voltage - Voc(V)	53.7V	50.20V	53.90V	50.40V	54.10V	50.60V	54.30V	50.80V
Short- Circuit Current - Isc(A)	13.94A	11.23A	14.01A	11.28A	14.08A	11.33A	14.15A	11.38A
Voltage at Pmax -Vmp(V)	44.80V	41.80V	45.00V	42.00V	45.20V	42.20V	45.40V	42.39V
Current at Pmax - Imp(A)	13.17A	10.41A	13.22A	10.45A	13.27A	10.50A	13.32A	10.54A
Module Efficiency -ηm(%)	21.30%		21.48%		21.66%		21.84%	
Power Tolerance(W)	(0, +5W)							
Maximum System Voltage(V)	1500Vdc (IEC / UL)							
Maximum Series Fuse Rating (A)	25A							

STC : Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 C, Air Mass 1.5

NOCT : Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 C, Air Mass 1.5, Wind Speed 1m/s

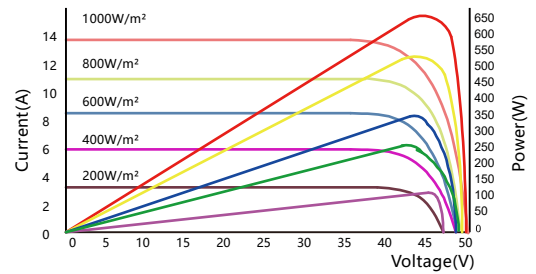
## Mechanical Specifications

External Dimensions	2465 x 1134 x 35mm
Weight	30.0kg
Solar Cells	Mono crystalline 182mm (6x26pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Black Anodized aluminum alloy
Junction Box	IP68 with 3 bypass diodes
Output Cables	4.0mm <sup>2</sup> , 30cm (+), 40cm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

## Packing Configuration

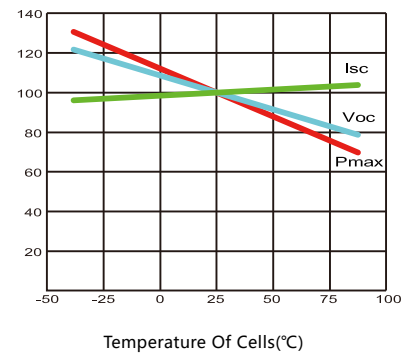
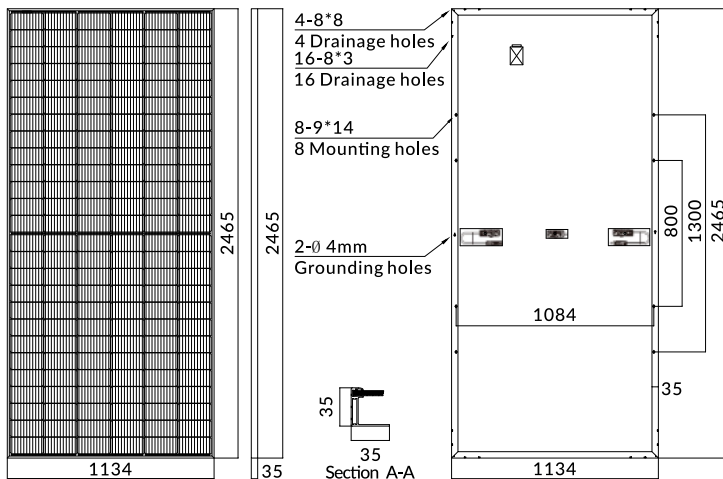
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	4	16
Pieces per Container	124	496

## IV Curves (SW600PD)



## Temperature Characteristics

Pmax Temperature Coefficient	-0.360%/ C
Voc Temperature Coefficient	-0.28%/ C
Isc Temperature Coefficient	+0.05%/ C
Operating Temperature	-40 ~ +85 C
Nominal Operating Cell Temperature(NOCT)	45±2 C



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