



9BB



Black Frame Design  
More Aesthetic  
effect on roof

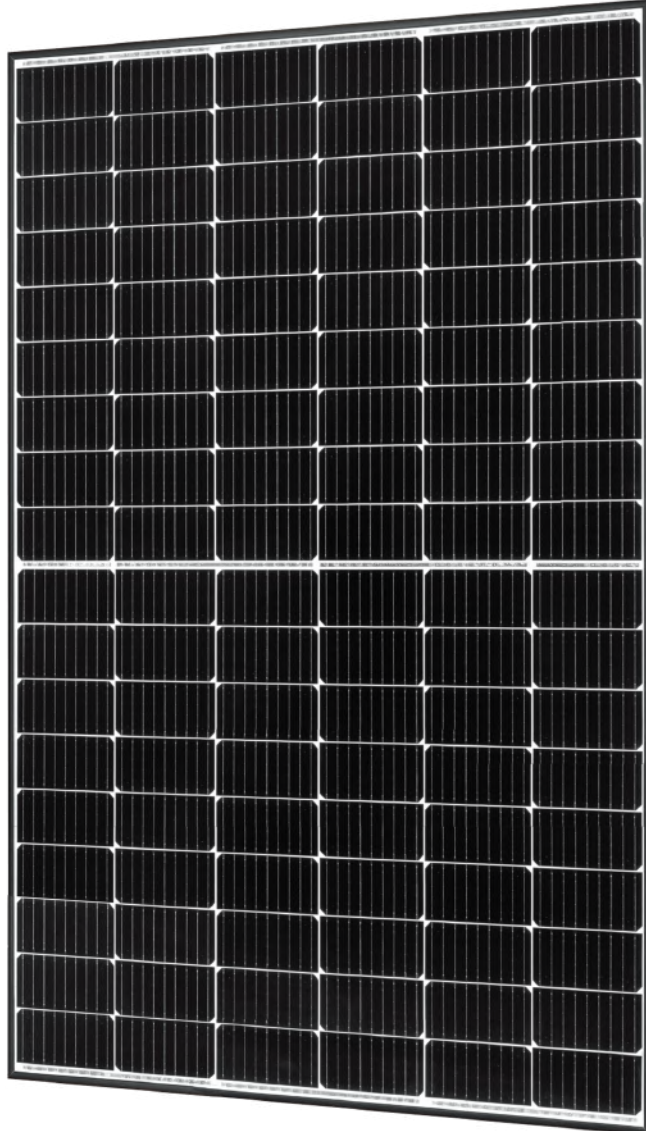


100% TEST

Double EL tests  
ensures high  
quality standard



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



Monocrystalline PERC  
Half cut cells



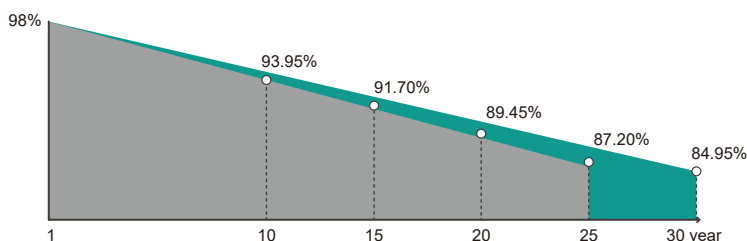
Positive Power tolerance  
0~+5W extra output power



Anti-PID  
Low LID Performance

# 390~415W

182mm 108Cells 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

## Electrical Characteristics (STC)

Module Type	SW390-PD	SW395-PD	SW400-PD	SW405-PD	SW410-PD	SW415-PD
	STC	STC	STC	STC	STC	STC
Maximum Power- Pmax(W)	390W	395W	400W	405W	410W	415W
Open Circuit Voltage - Voc(V)	36.85V	36.98V	37.07V	37.23V	37.32V	37.45V
Short- Circuit Current - Isc(A)	13.61A	13.70A	13.79A	13.87A	13.95A	14.02A
Voltage at Pmax -Vmp(V)	30.64V	30.84V	31.01V	31.21V	31.45V	31.61V
Current at Pmax - Imp(A)	10.76A	12.81A	12.90A	12.98A	13.04A	13.13A
Module Efficiency (%)	20.00	20.20	20.50	20.80	21.00	21.30
Power Tolerance(W)	(0, +5W)					
Maximum System Voltage(V)	1500VDC (IEC)					
Maximum Series Fuse Rating (A)	25A					

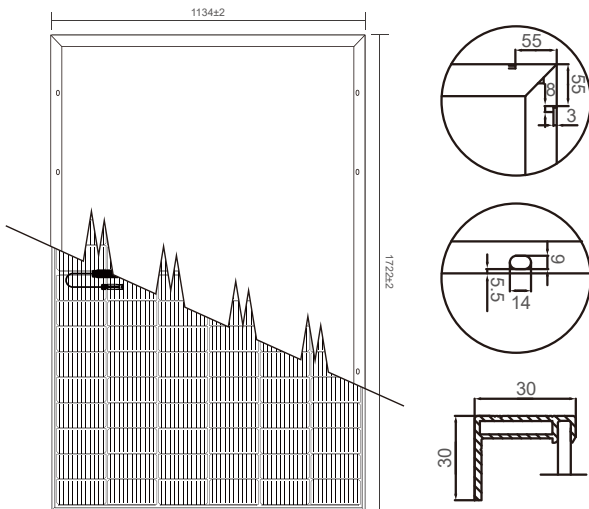
STC : Irradiance 1000W/m<sup>2</sup> , Cell Temperature 25 C , Air Mass 1.5

## Mechanical Specifications

External Dimensions	1722x1134x30mm
Weight	21.5kg
Solar Cells	Mono crystalline 182mm (2x54pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 with 3 by pass diodes
Output Cables	4.0mm <sup>2</sup> , 25cm (+), 30cm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

## Temperature Characteristics

Pmax Temperature Coefficient	-0.35%/ C
Voc Temperature Coefficient	-0.27%/ C
Isc Temperature Coefficient	+0.048%/ C
Operating Temperature	-40 ~ +85 C
Nominal Operating Cell Temperature(NOCT)	45±2 C



## Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	6	26
Pieces per Container	186	806

## Current-Voltage & Power-Voltage Curves (SW415-PD)

