

DS5-144 (144mm Cell)

585 Wp

BIFACIAL MODULE WITH DUAL GLASS

N-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational health and safety management systems



Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

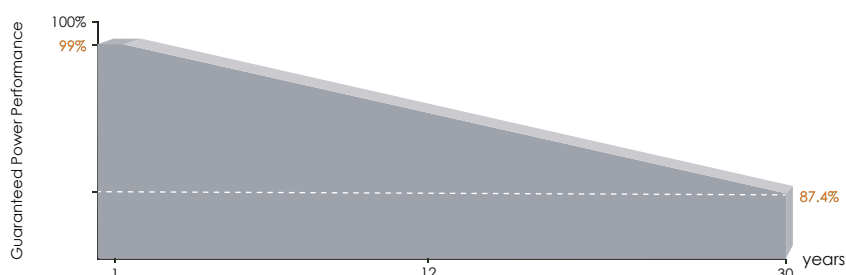


Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



LINEAR PERFORMANCE WARRANTY

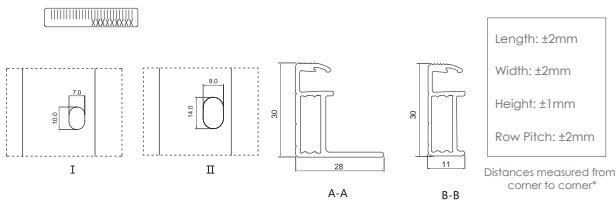
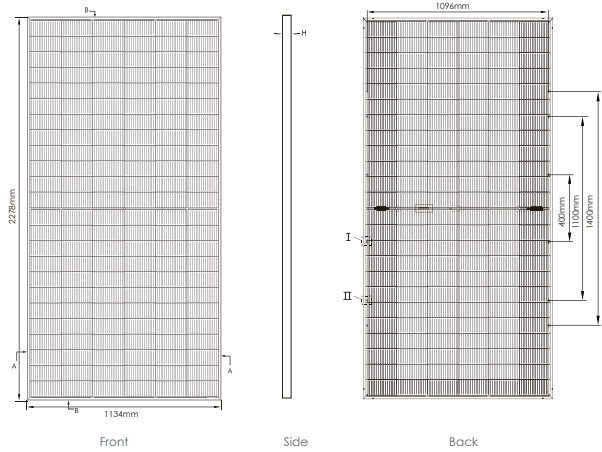


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



*For detailed sizes and tolerance specification, please consult detailed module drawing

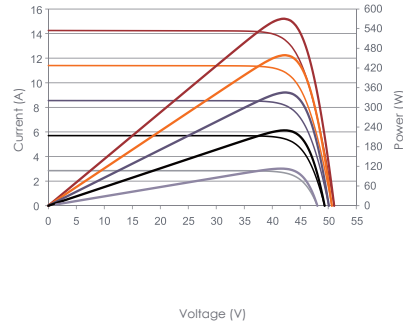
Packaging Configuration

(Two pallets = One stack)

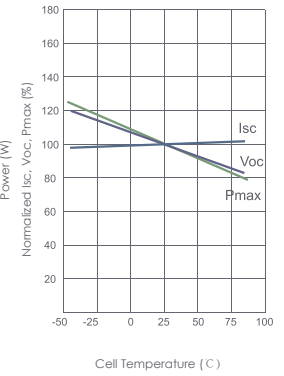
36pcs/pallets, 72pcs/stack, 720pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (570W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	144 (2×72)
Dimensions	2278×1134×30mm (89.69×44.65×1.18 inch)
Weight	31 kg (68.34 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	DS16144585M	
	STC	NOCT
Maximum Power (Pmax)	585Wp	441Wp
Maximum Power Voltage (Vmp)	44.02V	41.05V
Maximum Power Current (Imp)	13.29A	10.74A
Open-circuit Voltage (Voc)	2.70V	40.05V
Short-circuit Current (Isc)	14.01A	11.31A
Module Efficiency STC (%)	22.65%	
Operating Temperature(°C)	-40°C~+85°C	
Maximum system voltage	1500VDC (IEC)	
Maximum series fuse rating	30A	
Power tolerance	0~+3%	
Temperature coefficients of Pmax	-0.29%/°C	
Temperature coefficients of Voc	-0.25%/°C	
Temperature coefficients of Isc	0.045%/°C	
Nominal operating cell temperature (NOCT)	45±2°C	
Refer. Bifacial Factor	80±5%	

*STC: Irradiance 1000W/m² Cell Temperature 25°C

NOCT: Irradiance 800W/m² Ambient Temperature 20°C

AM=1.5

AM=1.5

Wind Speed 1m/s

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