



# Half Cell Mono PERC

## DAS-WH144PA 525W ~ 545W



**High Efficiency**

Module efficiency leading in industry, up to 21.3%



**High Reliability**

Passed 3\*IEC standard test



**Low Hot-spot Risk**

1/2 current, reducing the hot spot temperature



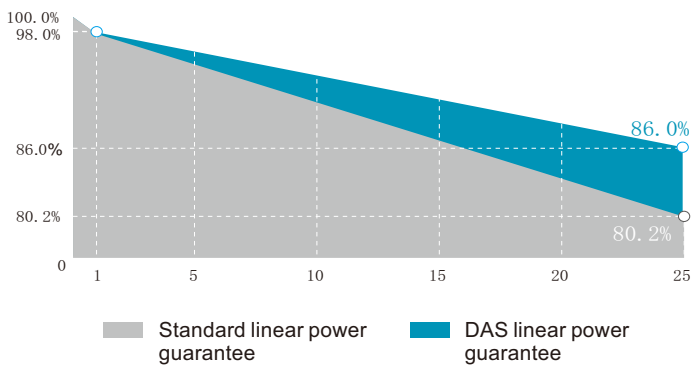
**Low NMOT**

As low as 43°C, improving the power generation efficiency



**Half Cell, MBB Technology**

Series-then-parallel cell connection design, more reliable soldering technology



## Product And Quality Certifications

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environmental Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test

-2.00%
First year power degradation
-0.50%
Annual degradation

**12 YEAR**  
Materials and workmanship warranty

**25 YEAR**  
Linear power warranty



## Electrical Parameters (STC\*)

Module Type	WH144PA-525	WH144PA-530	WH144PA-535	WH144PA-540	WH144PA-545
Nominal Max. Power(Pmax/W)	525	530	535	540	545
Open Circuit Voltage(Voc/V)	49.03	49.16	49.36	49.52	49.68
Short Circuit Current(Isc/A)	13.65	13.72	13.77	13.84	13.91
Operating Voltage(Vmp/V)	41.18	41.31	41.51	41.67	41.83
Operating Current(Imp/A)	12.75	12.83	12.89	12.96	13.03
Efficiency(%)	20.5	20.7	20.9	21.1	21.3

STC\*(Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

## Electrical Parameters (NMOT\*)

Module Type	WH144PA-525	WH144PA-530	WH144PA-535	WH144PA-540	WH144PA-545
Nominal Max. Power(Pmax/W)	386	390	393	397	401
Open Circuit Voltage(Voc/V)	45.35	45.47	45.66	45.81	45.95
Short Circuit Current(Isc/A)	11.00	11.06	11.10	11.16	11.21
Operating Voltage(Vmp/V)	37.84	38.01	38.12	38.28	38.48
Operating Current(Imp/A)	10.20	10.26	10.31	10.37	10.42

NMOT\* (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

## Mechanical Parameters

Cell size	Mono PERC 166mm*83mm
Module size	2256×1133×35mm (L x W x H)
Glass Thickness	3.2mm
Module Weight	27.9Kg
Output Cable	4mm <sup>2</sup> , cable length 300mm (can be customized)
Connector	MC4 compatible
J-Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

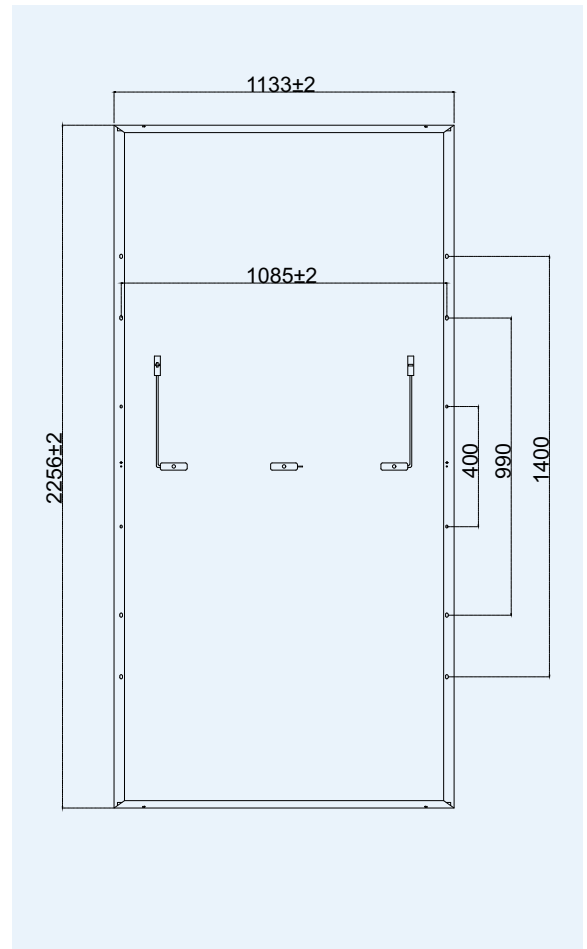
## Temperature Coefficients

Short Circuit Current(Isc)	+0.048%/°C
Open Circuit Voltage(Voc)	-0.31%/°C
Nominal Max. Power(Pmax)	-0.38%/°C
NMOT	43±2°C

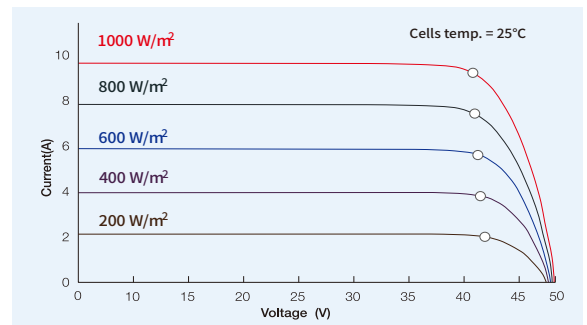
## Operating Parameters

Max. System Voltage	DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	25A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa
Safety Class	Class II
Packing Specification	31 pcs/Pallet, 155 pcs/ 20'GP; 620 pcs/ 40'HQ;

## Dimension



## I-V curve



## I-V curve

