



Solar
GERMAN
NATIONAL

Mercury Series

Mono-Crystalline
565~585W

0~+5W POWER TOLERANCE

High efficiency N - type Double glass module

- Stronger properties, PID resistance, reduced hot spot loss
- Higher module power, lower BOS costs
- Harsh environmental adaptation
- Bifacial module, more power generation

15 years material warranty **15**

30 years power linear warranty **30**

132

HALF-CUT
CELLS

182
x199
mm

RECTANGULAR
CELLS

A sound quality management
system and product certification

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



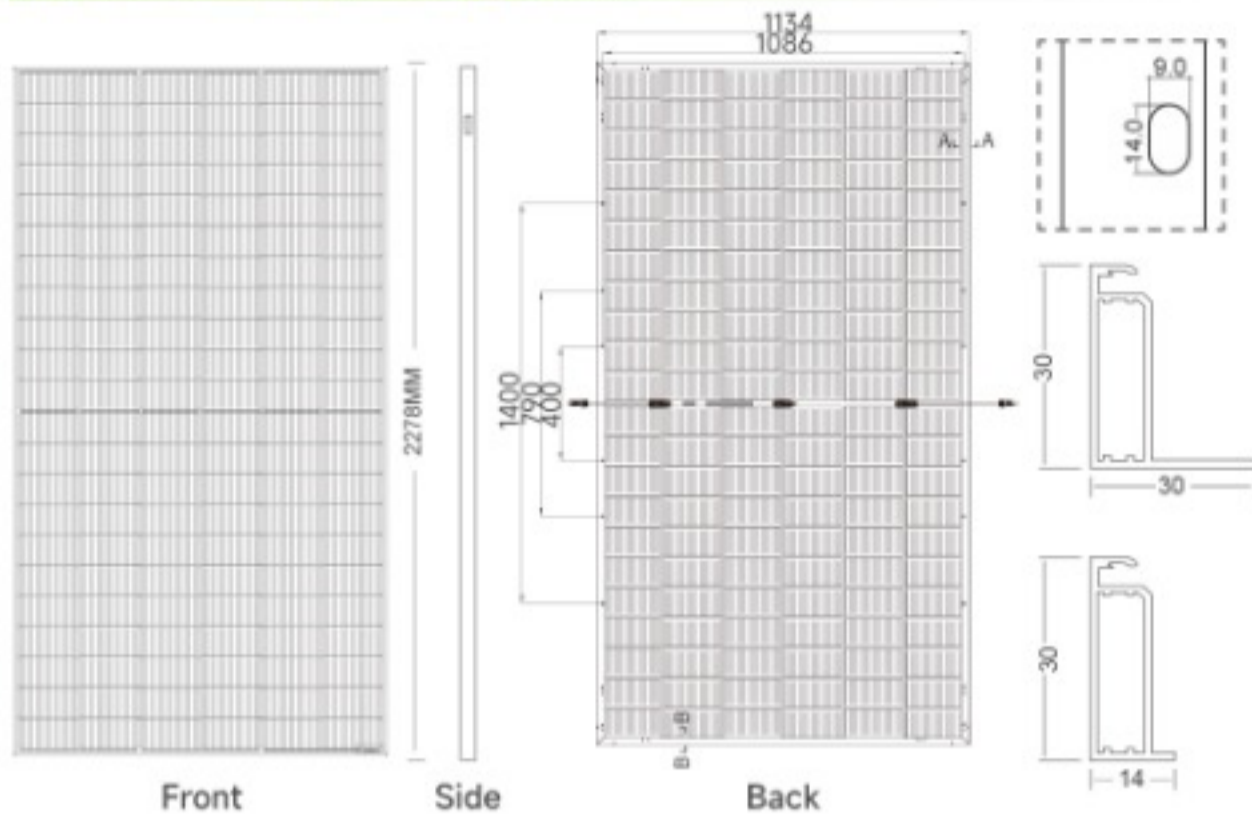
22.6%
MAXIMUM CONVERSION

0~+5W
POWER TOLERANCE

0.4%
0.4% PER YEAR OVER 30 YEARS

Half-Cut Module
LOWER TEMPERATURE COEFFICIENT

Mechanical Diagrams



Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm

Packing Standard

Container capacity(40HQ)

Pallet size (mm) : 37pcs/pallet,20pallets/ctns, 740pcs/ctn

Electrical Parameters At BNPI

Maximum Power (Pmax)	623	628	634	639	645
Open Circuit Voltage (Voc)	47.18	47.42	47.65	47.89	48.12
Short Circuit Current (Isc135)	16.71	16.78	16.84	16.90	16.97
Short Circuit Current (Isc300)	18.61	18.68	18.75	18.83	18.90
Maximum Power Voltage (Vmp)	39.59	39.80	40.01	40.22	40.43
Maximum Power Current (Imp)	15.73	15.79	15.84	15.90	15.95

Electrical Parameters

Module Type	QN-565HT-03		QN-570HT-03		QN-575HT-03		QN-580HT-03		QN-585HT-03	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	565	427	570	431	575	435	580	438	585	442
Open Circuit Voltage (Voc)	47.18	44.82	47.42	45.05	47.65	45.27	47.89	45.50	48.12	45.71
Short Circuit Current (Isc)	15.16	12.13	15.21	12.17	15.27	12.22	15.33	12.26	15.39	12.31
Maximum Power Voltage (Vmp)	39.59	37.41	39.80	37.61	40.01	37.81	40.22	38.01	40.43	38.21
Maximum Power Current (Imp)	14.27	11.42	14.32	11.46	14.37	11.50	14.42	11.54	14.47	11.58
Module Efficiency -ηm (%)	21.9		22.1		22.3		22.5		22.6	

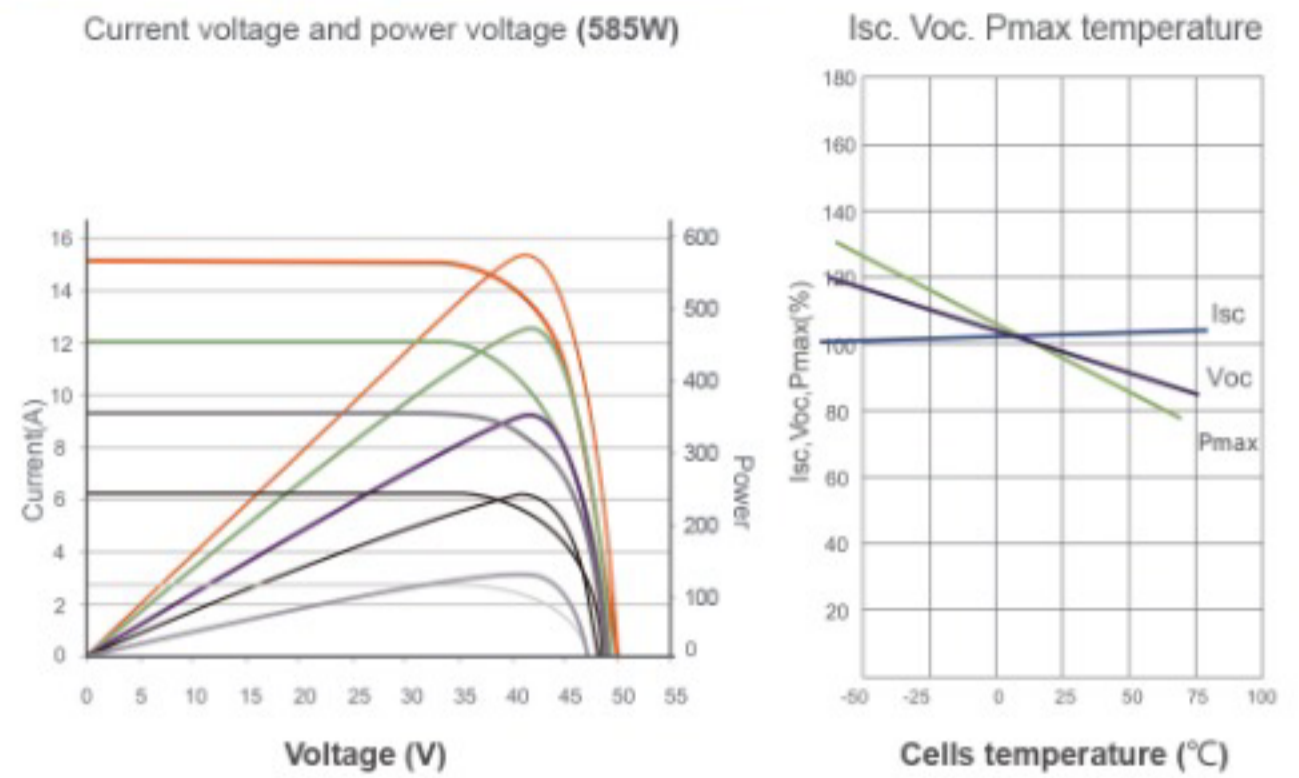
Load Capacity

Max Load Front	5400Pa
Max Load Back	2400Pa
Through Hail Testing	25mm Diameter, Impact Speed 23m/s

Temperature Coefficient (STC Test)

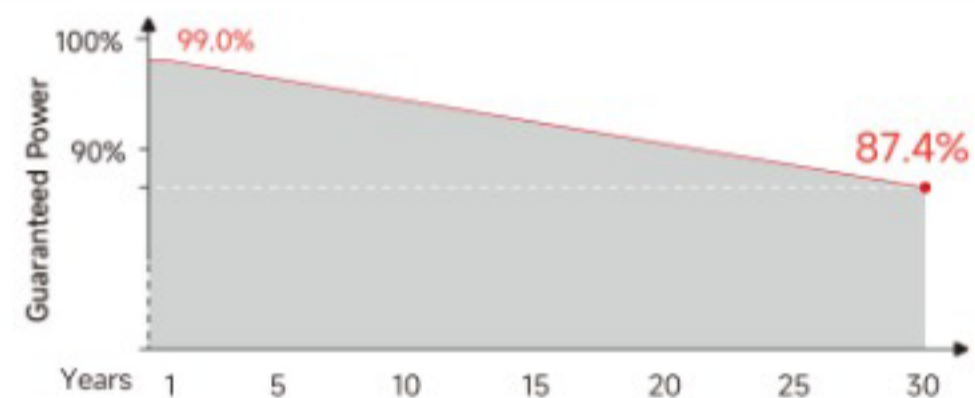
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.30%/°C

Curve Figure



Specification

Cell Type	Mono Crystalline
No. of Cells	132 [2x(6x11)] pcs
Dimension	2278x1134x30mm
Weight	31.2kg
Front Glass	2.0mm
Back Glass	2.0mm
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)



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<https://www.info@germannational.de>

STC : Irradiance:1000W/m² | Battery temperature: 25°C | Atmospheric=1.5
NOCT: Irradiance:800W/m² | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s
BNPI: Rear Irradiance 135W/m² | Bifaciality coefficient 80%±5%

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