

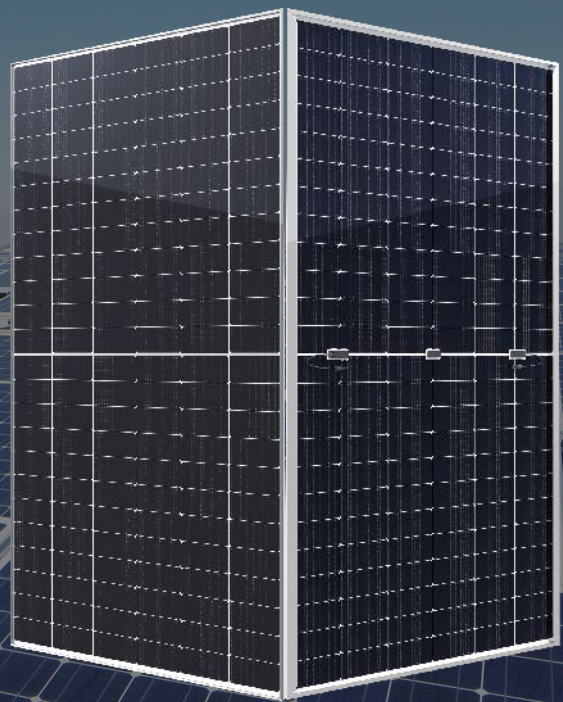
N-Type

182 Bifacial Module

GPM-585W (144)

575W-585W

Maximum output power	Maximum efficiency	Power tolerance
585W	22.65%	0~+3%



Key Features



N-TOPCon Half Cell

The power of half-cell solar panel increases, and the hot spot temperature reduces because of lower working current.



High PID Resistant

Advanced cell technology and qualified materials lead to high PID resistance.



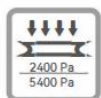
Positive Tolerance

Positive tolerance of up to 0-5W delivers higher outputs reliably.



Extended Wind and Snow Load Tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal).



Current Sorting Process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage.

Quality System

ISO9001:2015:Quality Management System
ISO14001:2015:Environment Management System
ISO45001:2018:Occupational Health and Safety Management Systems
TUV, CE, SGS, INMETRO, ROHS

Product Certifications

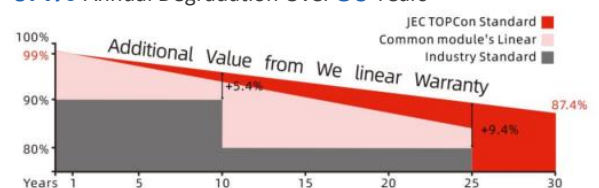


Linear performance warranty

12 Year Product Warranty

30 Year Linear Warranty

0.4% Annual Degradation Over 30 Years



SUZHOU PRETA INTELLIGENCE AND TECHNOLOGY CO.,LTD

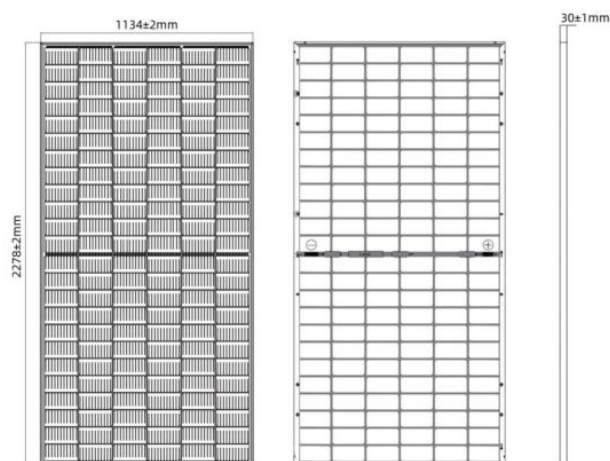
Add: No.55 Shangxiang Road, Huaqiao Corporation Head Quarter Centre, Kunshan City, Suzhou City

Tell: 0512-36684019

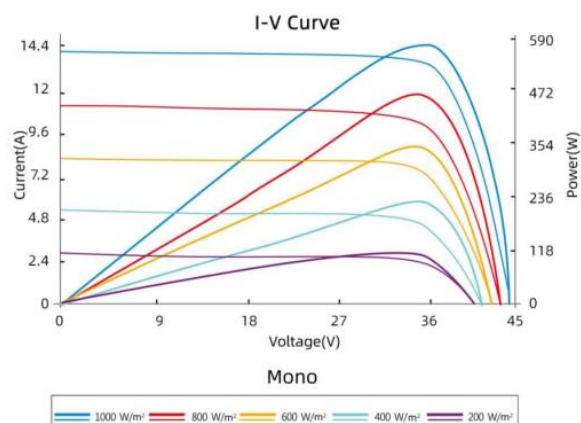
Web: <https://pretapower.com>

Mail: info@pretapower.com

Engineering Drawings



Electrical Performance (580W)



Excellent performance under weak light conditions: at an irradiation intensity of 800W/m² (AM 1.5, 25°C), 95.5% or higher of the STC efficiency (1000W/m²) is achieved.

Electrical Parameters (STC*)

STC	NES144-7-575MDG	NES144-7-580MDG	NES144-7-585MDG
MAXIMUM POWER(PMAX)	575W	580W	585W
Optimum Operating Voltage(Vmp)	42.22V	42.37V	42.52V
Optimum Operating Current(Imp)	13.62A	13.69A	13.76A
Open Circuit Voltage(Voc)	50.88V	51.02V	51.16V
Short Circuit Current(Isc)	14.39A	14.47A	14.55A
Module Efficiency	22.30%	22.45%	22.65%
Operating Module Temperature	-40°C to +85°C		
Maximum System Voltage	1500V DC (IEC)		
Power Tolerance	0~+5W		
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used		

Mechanical Parameters

Solar Cell	182mm MBB N-TOPCon
No. of Cells	144 (6x12x2)
Dimensions	2278mmx1134mmx30mm
Weight	31.80kg±3%
Front/Back Glass	2.0mm/2.0mm
Frame	Anodized Aluminium Alloy
Junction box	Ip68 rated
Output Cables	TÜV (2Pfg1169:2007)
	4.0 mm²(0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

Temperature Coefficient

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.240%/°C
Temperature Coefficient of Voc	-0.220%/°C
Temperature Coefficient of Isc	-0.047%/°C

Packaging Configuration

Per Pallet	36Pieces
Per Container (40' HQ)	720Pieces

SUZHOU PRETA INTELLIGENCE AND TECHNOLOGY CO.,LTD

Add: No..55 Shangxiang Road, Huaqiao Corporation Head Quarter Centre, Kunshan City, Suzhou City

Tell: 0512-36684019

Web: <https://pretapower.com>

Mail: info@pretapower.com