

540-555Watt 144cells 182 P- Type Mono-facial Module

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



MBB Technology

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



Hot 2.0 Technology

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



PID Resistance

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



Enhanced Mechanical Load

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

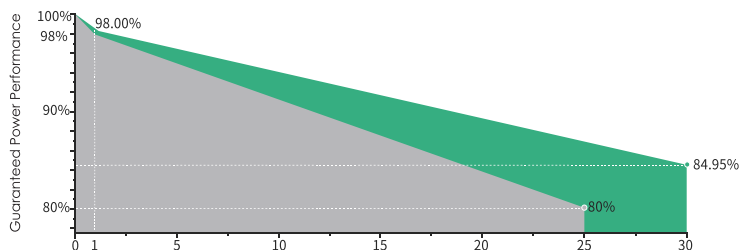


Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



LINEAR PERFORMANCE WARRANTY

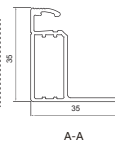
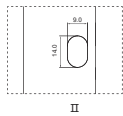
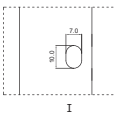
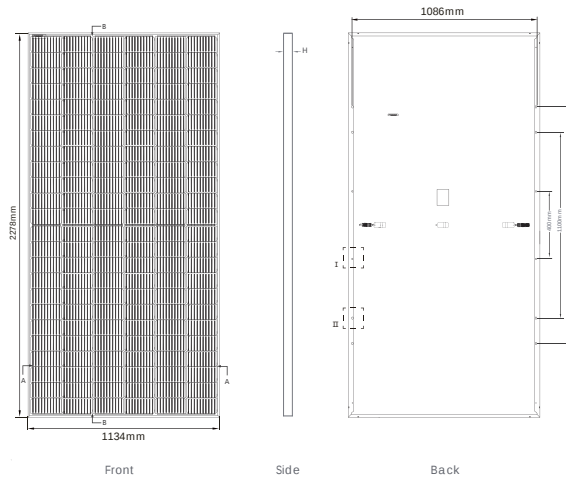


12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years

Engineering Drawings

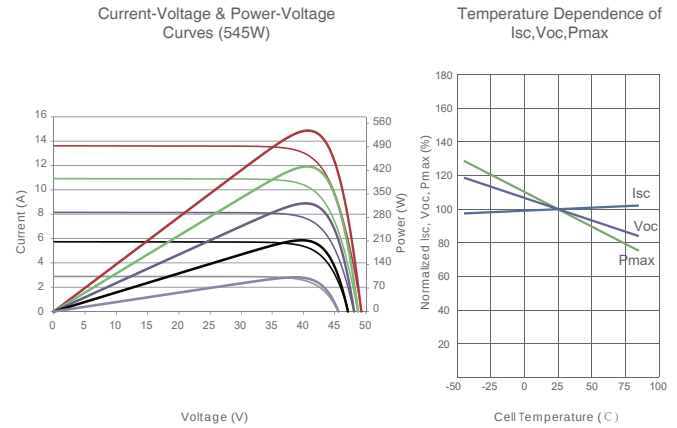


Length: $\pm 2\text{mm}$
Width: $\pm 2\text{mm}$
Height: $\pm 1\text{mm}$
Row Pitch: $\pm 2\text{mm}$

Packaging Configuration

31 pcs/pallets, 62 pcs/stack, 620 pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	p type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×35mm
Weight	28 kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 300mm, (-): 300mm or Customized Length

SPECIFICATIONS

Module Type	GPM-540W(144)		GPM-545W(144)		GPM-550W(144)		GPM-555W(144)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	540Wp	402Wp	545Wp	405Wp	550Wp	409Wp	555Wp	413Wp
Maximum Power Voltage (Vmp)	40.70V	38.08V	40.80V	38.25V	40.90V	38.42V	40.99V	38.59V
Maximum Power Current (Imp)	13.27A	10.55A	13.36A	10.60A	13.45A	10.65A	13.54A	10.70A
Open-circuit Voltage (Voc)	49.42V	46.65V	49.52V	46.74V	49.62V	46.84V	49.72V	46.93V
Short-circuit Current (Isc)	13.85A	11.19A	13.94A	11.26A	14.03A	11.33A	14.12A	11.40A
Module Efficiency STC (%)	20.90%		21.10%		21.29%		21.48%	
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1000/1500VDC (IEC)							
Maximum series fuse rating	25A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.35%/°C							
Temperature coefficients of Voc	-0.28%/°C							
Temperature coefficients of Isc	0.048%/°C							
Nominal operating cell temperature (NOCT)	45±2°C							

*STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s