SOLAR PPM

SPPM-NM10-DG
610W - 630W

BIFACIAL DOUBLE GLASS MODULE

Worldwide Standard

IEC CE ISO ISO ISO

Key Features

N-TYPE Technology M10
N-Monocrystalline silicon with silicon nitride layers for higher reliability

SMBB Technology
Better light trapping with multi busbar decreasing resistance and power loss

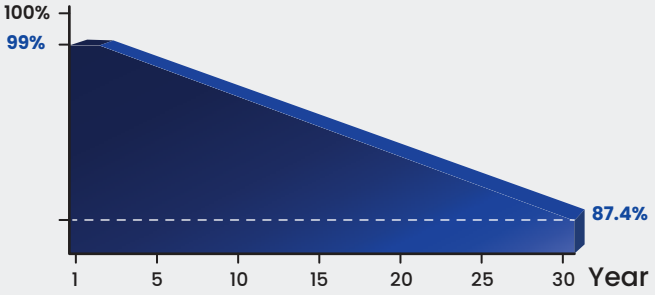
PID Resistance excellence
Anti-performance deterioration induced by negative potential to ground

Anti-reflective and anti-soiling
Reducing reflection loss and dust adhesion and improving power conversion efficiency (PCE)

1500 VDC IEC Compatibility
Safe measurement from series circuit connection up to 1500 voltage

Doubleglass Bifacial
Better resistant to harsh environments - salt, ammonia, high humidity and temperature

Power Performance



Linear Performance Warranty

15 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

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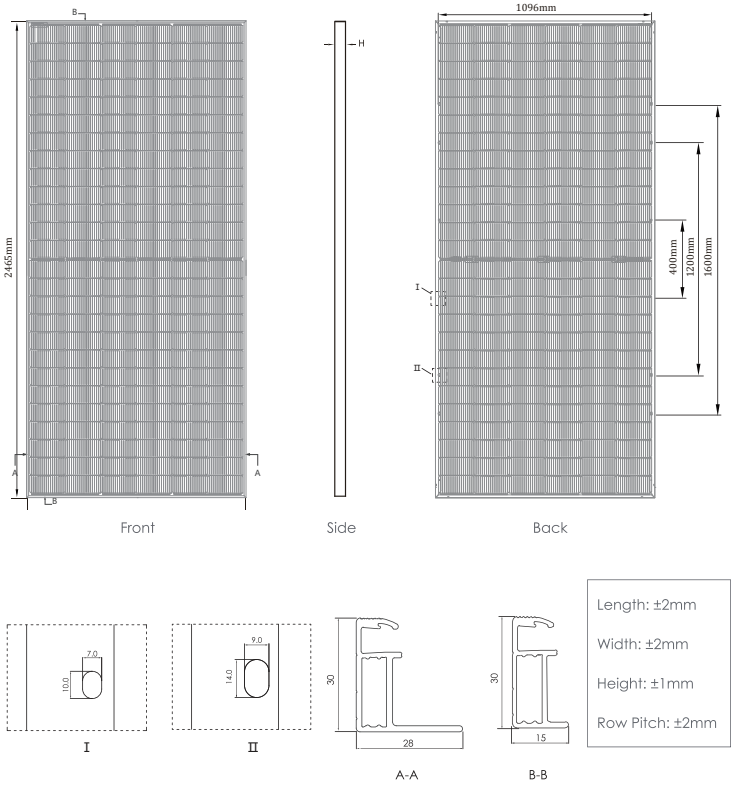
MECHANICAL PARAMETERS

Cell (mm)	MONO N-TYPE 182 x 182
Weight (Kg)	35
Glass Thickness (mm)	2.0 , Transparent, Low Iron , Heat Strengthened Glass
Dimensions (L x W x H)(mm)	2465 x 1096 x 35
Cable Cross Section Size (mm2)	4.0
No. of Cells and Connections	156 (6 x 13) x 2
Junction Box	IP68,3 Schottky diode
Connector	MC4 Compatible
Packaging Configuration	Anodized Aluminium Alloy

WORKING CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Operating Temperature	-40°C +85°C
Maximum Series Fuse	25A
Maximum Static Load, Front(e.g., snow and wind)	5400Pa
Maximum Static Load, Back(e.g., wind)	2400Pa
NOCT	45+2 °C
Application Class	A
Fire Performance Class	Class C / Type 1



ELECTRICAL PARAMETERS

TYPE	SPPM-NM10-GG 610W	SPPM-NM10-GG 615W	SPPM-NM10-GG 620W	SPPM-NM10-GG 625W	SPPM-NM10-GG 630W
Rated Maximum Power at STC (W)	610	615	620	625	630
Open Circuit Voltage (Voc/V)	55.25	55.40	55.55	55.70	55.85
Maximum Power Voltage (Vmp/V)	45.59	45.69	45.79	45.92	46.02
Short Circuit Current (Isc/A)	14.11	14.18	14.25	14.32	14.39
Maximum Power Current (Imp/A)	13.38	13.46	13.54	13.61	13.69
Module efficiency (%)	21.82%	22.00%	22.18%	22.36%	22.54%
Power tolerance	-0 to +5 Watt				
Temperature Coefficient of Isc	0.045%/ °C				
Temperature Coefficient of Voc	-0.25%/ °C				
Temperature Coefficient of Pmax	-0.29%/ °C				
STC	Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5				

NOCT

TYPE	SPPM-NM10-GG 610W	SPPM-NM10-GG 615W	SPPM-NM10-GG 620W	SPPM-NM10-GG 625W	SPPM-NM10-GG 630W
Maximum Power (Pmax) (W)	459	462	466	470	474
Open Circuit Voltage (Voc/V)	52.48	52.62	52.77	52.91	53.05
Maximum Power Voltage (Vmp/V)	42.28	42.39	42.50	42.61	42.72
Short Circuit Current (Isc/A)	11.39	11.45	11.50	11.56	11.62
Maximum Power Current (Imp/A)	10.85	10.91	10.97	11.03	11.09
Condition	Under Normal Operating Cell Temperature, Irradiance of 800W/m², Spectrum AM1.5, ambient temperature 20°C, wind speed 1 m/s				

PACKAGE CONFIGURATION

Modules per box: 31 pieces

Modules per 40' container: 496 pieces

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