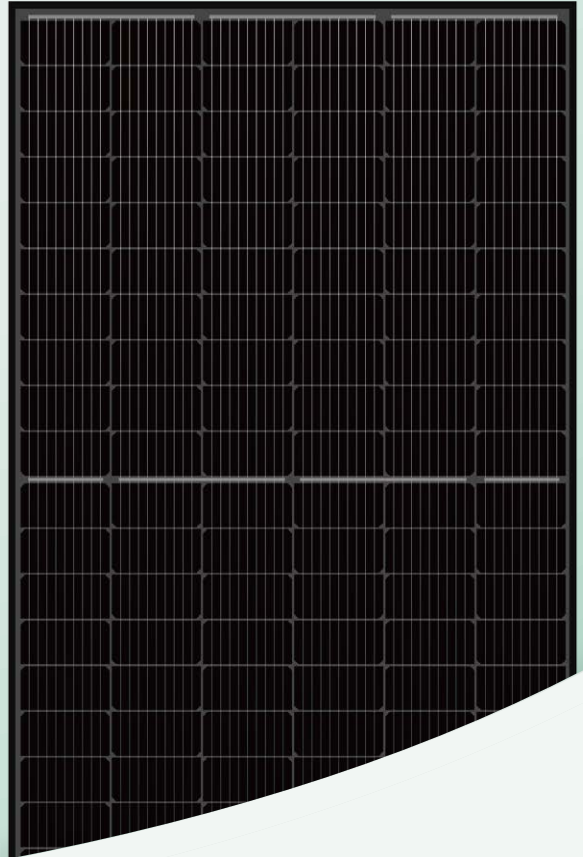


SP380M-60HB Black

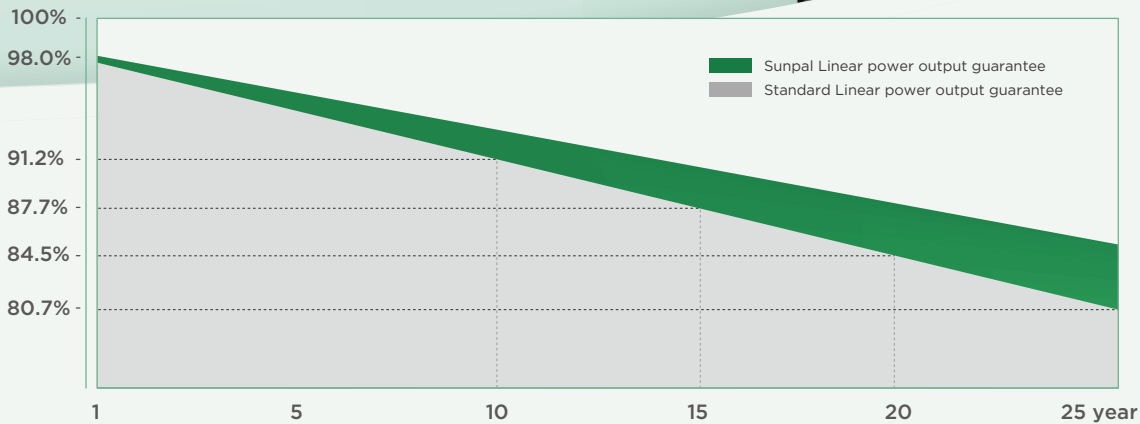
# 350~380W



## High Efficiency Low LID Mono PERC with MBB & Half-cut Technology

### Quality Guarantee

12-year Warranty for Materials and Processing  
25-year Warranty for Extra Linear Power Output



**20.9%**  
Max Module Eff.

**0~+5W**  
Positive Tolerance

#### Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730  
ISO 9001:2008: ISO Quality Management System  
ISO 14001: 2004: ISO Environment Management System  
OHSAS 18001: 2007 Occupational Health and Safety



\* Specifications subject to technical changes and tests. Sunpal Solar reserves the right of interpretation.

Positive power tolerance (0 +5W) guaranteed

High module conversion efficiency (up to 20.9%)

Slower power degradation enabled by Low LID Mono PERC technology: first year <2%, 0.55% year 2-25

Solid PID resistance ensured by solar cell process optimization and careful module BOM selection

Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

Reduced hot spot risk with optimized electrical design and lower operating current



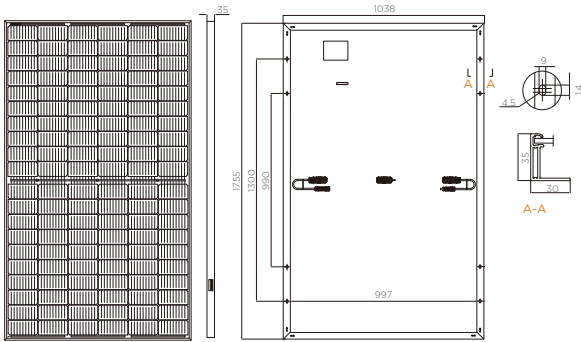
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Q Sunpal Power

Black

# SP380M-60HB 350~380W

## Design (mm)



\*Units: mm \*Tolerance: ±2mm

<b>Cell Orientation</b>	120 (6x20)
<b>Junction Box</b>	IP68, three diodes
<b>Output Cable</b>	4mm <sup>2</sup> , 300mm in length, length can be customized
<b>Glass</b>	Single glass 3.2mm coated tempered glass
<b>Frame</b>	Anodized aluminum alloy frame
<b>Weight:</b>	19.5kg
<b>Dimension</b>	1755x1038x35mm
<b>Packaging</b>	30pcs per pallet 180pcs per 20'GP 780pcs per 40'HC

<b>Operational Temperature</b>	-40°C~+85°C
<b>Power Output Tolerance</b>	0~+5W
<b>Voc &amp; Isc Tolerance</b>	±3%
<b>Max. System Voltage</b>	DC1500V(IEC/UL)
<b>Max. Series Fuse Rating</b>	20A
<b>NOCT</b>	45±2°C
<b>Safety Class</b>	II
<b>Fire Rating</b>	UL type 1 or 2
<b>Max. Static Load(Front)</b>	5400Pa
<b>Max. Static Load(Back)</b>	2400Pa

## Electrical Characteristics

Model Number	SP350M-60HB		SP355M-60HB		SP360M-60HB		SP365M-60HB		SP370M-60HB		SP375M-60HB		SP380M-60HB	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
<b>Maximum Power (Pmax/W)</b>	350	261.4	355	265.1	360	268.8	365	272.6	370	276.3	375	280.0	380	283.8
<b>Open Circuit Voltage (Voc/V)</b>	40.1	37.6	40.3	37.8	40.5	38.0	40.7	38.2	40.9	38.3	41.1	38.5	41.3	38.7
<b>Short Circuit Current (Isc/A)</b>	11.15	9.02	11.25	9.10	11.35	9.17	11.43	9.25	11.52	9.32	11.60	9.38	11.69	9.45
<b>Voltage at Maximum Power (Vmp/V)</b>	33.6	31.3	33.8	31.5	34.0	31.7	34.2	31.8	34.4	32.0	34.6	32.2	34.8	32.4
<b>Current at Maximum Power (Imp/A)</b>	10.42	8.35	10.51	8.43	10.59	8.49	10.68	8.56	10.76	8.63	10.84	8.69	10.92	8.76
<b>Module Efficiency(%)</b>	19.2		19.5		19.8		20.0		20.3		20.6		20.9	
<b>Temperature Coefficient of Isc</b>														
	+0.048%/°C													
<b>Temperature Coefficient of Voc</b>														
	-0.270%/°C													
<b>Temperature Coefficient of Pmax</b>														
	-0.350%/°C													

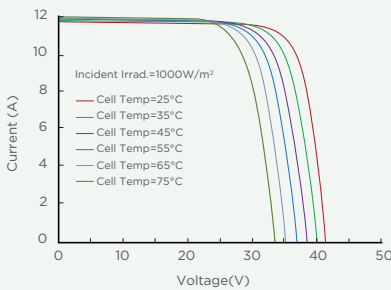
\* STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5

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

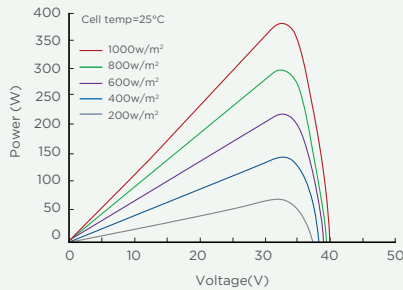
\*Test uncertainty for Pmax: ±3%

## I-V Curve

Current-Voltage Curve(SP365M-60HB)



Current-Voltage Curve(SP365M-60HB)



Current-Voltage Curve(SP365M-60HB)

