

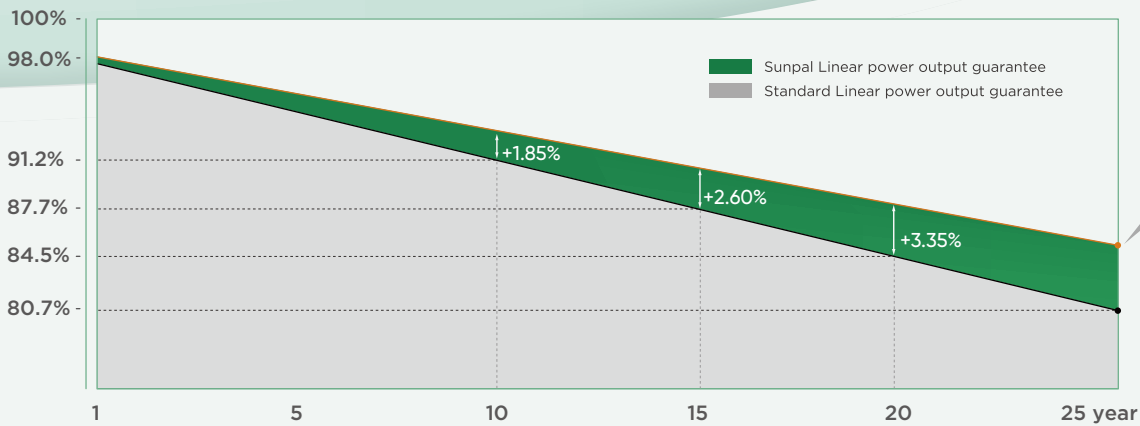
**HIMAX 4**

# 375~400W

**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



**84.80%**  
**21.96%**  
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 21.96%)**

**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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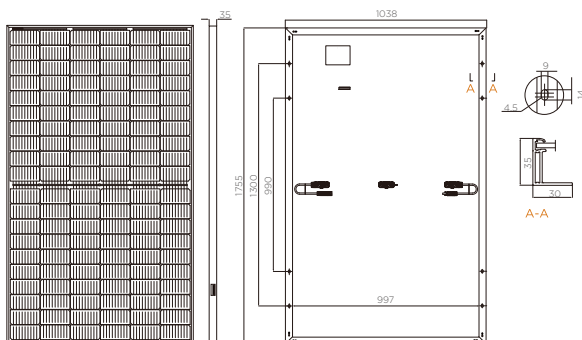


WeChat

**Sunpal Power**

# HIMAX 4 375~400W

## 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>	DC1000V(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	SP375M-60H		SP380M-60H		SP385M-60H		SP390M-60H		SP395M-60H		SP400M-60H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
<b>Maximum Power (Pmax/W)</b>	375	284	380	287	385	291	390	295	395	299	400	303
<b>Open Circuit Voltage (Voc/V)</b>	41.45	38.89	41.62	39.14	41.78	39.38	41.94	39.63	42.06	39.88	43.80	40.13
<b>Short Circuit Current (Isc/A)</b>	11.41	9.25	11.47	9.30	11.53	9.35	11.58	9.40	11.63	9.45	11.68	9.50
<b>Voltage at Maximum Power (Vmp/V)</b>	34.50	32.55	34.77	32.72	35.04	32.96	35.33	33.20	35.62	33.45	35.91	33.71
<b>Current at Maximum Power (Imp/A)</b>	10.87	8.71	10.93	8.78	10.99	8.83	11.04	8.88	11.09	8.94	11.14	8.99
<b>Module Efficiency(%)</b>	20.2		20.4		20.7		21.0		21.69		21.96	
<b>Temperature Coefficient of Isc</b>							+0.044%/°C					
<b>Temperature Coefficient of Voc</b>							-0.272%/°C					
<b>Temperature Coefficient of Pmax</b>							-0.350%/°C					

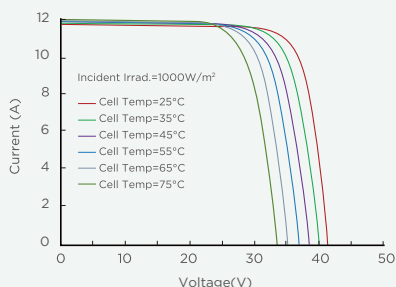
\* STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5

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

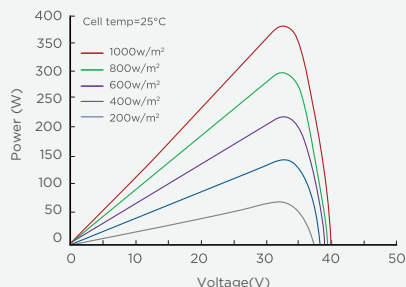
\*Test uncertainty for Pmax: ±3%

## I-V Curve

Current-Voltage Curve(SP390M-60H)



Power-Voltage Curve(SP390M-60H)



Current-Voltage Curve(SP390M-60H)

