

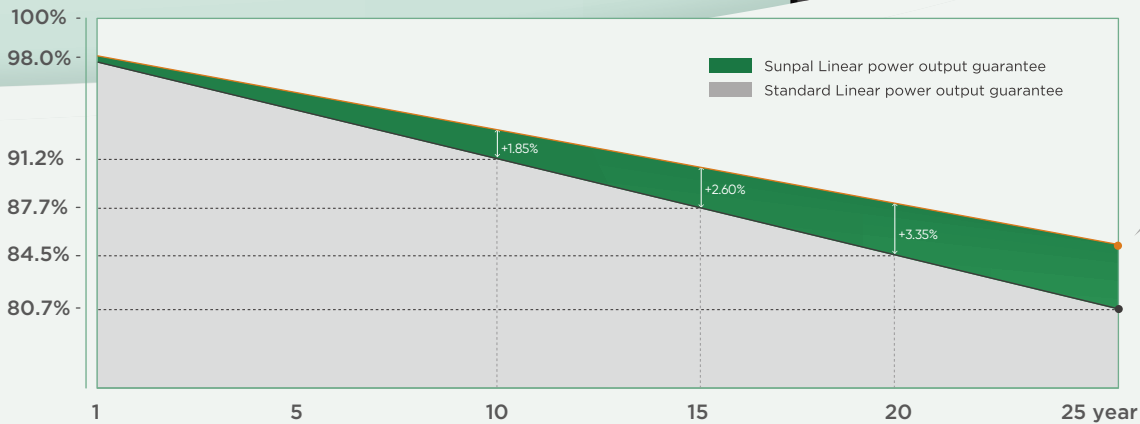
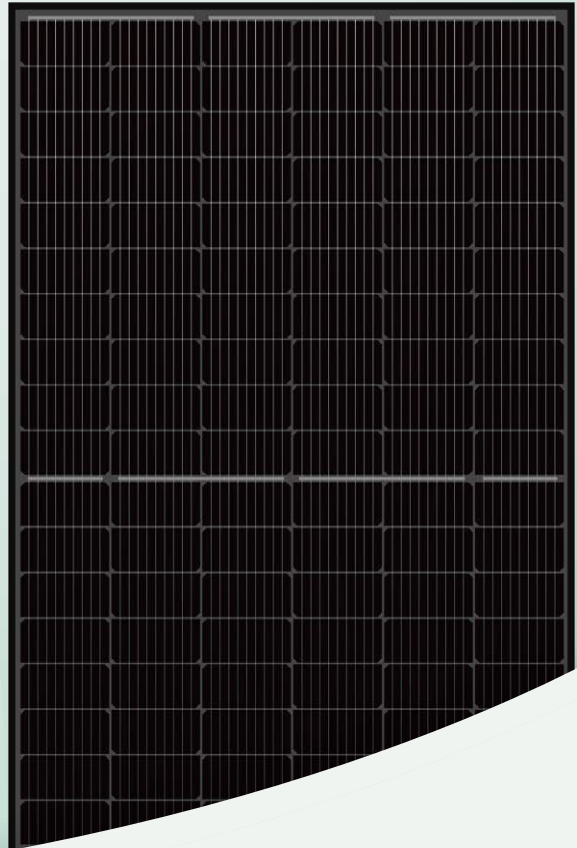
6 HiMAX ALL BLACK

580~605W

210mm Cells All Black 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%

21.38%
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 21.38%)

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

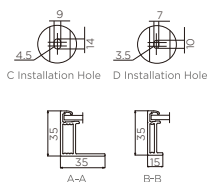
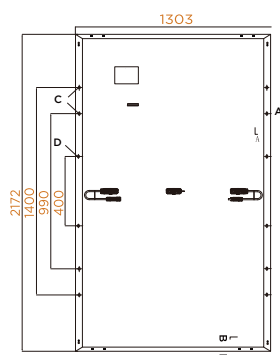
Reduced resistive loss with lower operating current

Higher energy yield with lower operating temperature

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



Design (mm)



Tolerance:
 Units: mm
 Length: ±2mm Width: ±2mm
 Height: ±1mm Hole distance: ±1mm

| | |
|-------------------------|---|
| Cell Orientation | 120 (6x20) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² , 300mm in length, length can be customized |
| Glass | Single glass 3.2mm coated tempered glass |
| Frame | Anodized aluminum alloy frame |
| Weight: | 30.9kg±3% |
| Dimension | 2172×1303×35 mm |
| Packaging | 31pcs per pallet 558pcs per 40'GP |

| | |
|--------------------------------|-----------------|
| Operational Temperature | -40°C~+85°C |
| Power Output Tolerance | 0~+5W |
| Voc & Isc Tolerance | ±3% |
| Max. System Voltage | DC1500V(IEC/UL) |
| Max. Series Fuse Rating | 30A |
| NOCT | 45±2°C |
| Safety Class | II |
| Fire Rating | UL type 1 or 2 |
| Max. Static Load(Front) | 5400Pa |
| Max. Static Load(Back) | 2400Pa |

Electrical Characteristics

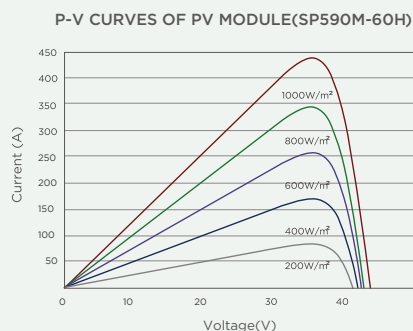
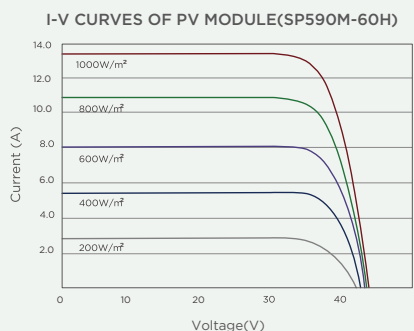
| Model Number | SP580M-60H | | SP585M-60H | | SP590M-60H | | SP595M-60H | | SP600M-60H | | SP605M-60H | |
|---|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-----------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 580 | 439 | 585 | 443 | 590 | 447 | 595 | 451 | 600 | 455 | 605 | 459 |
| Open Circuit Voltage (Voc/V) | 40.7 | 38.3 | 40.9 | 38.5 | 41.1 | 38.7 | 41.3 | 38.9 | 41.5 | 39.1 | 41.7 | 39.3 |
| Short Circuit Current (Isc/A) | 18.32 | 14.77 | 18.37 | 14.81 | 18.42 | 14.85 | 18.47 | 14.89 | 18.52 | 14.93 | 18.57 | 14.97 |
| Voltage at Maximum Power (Vmp/V) | 33.6 | 31.3 | 33.8 | 31.5 | 34 | 31.7 | 34.2 | 31.9 | 34.4 | 32.1 | 34.6 | 32.3 |
| Current at Maximum Power (Imp/A) | 17.27 | 14.03 | 17.31 | 14.07 | 17.36 | 14.11 | 17.4 | 14.14 | 17.45 | 14.18 | 17.49 | 14.22 |
| Module Efficiency(%) | 20.5 | | 20.68 | | 20.85 | | 21.03 | | 21.21 | | 21.38 | |
| Temperature Coefficient of Isc | | | | | | | | | | | | +0.04%/°C |
| Temperature Coefficient of Voc | | | | | | | | | | | | -0.25%/°C |
| Temperature Coefficient of Pmax | | | | | | | | | | | | -0.34%/°C |

* STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5

* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

*Test uncertainty for Pmax: ±3%

I-V Curve



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*CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

*Specifications included in this datasheet are subject to change without notice.

