

SDN

590 W  
595 W  
600 W  
605 W

# SunDay 10+

BIFACIAL PERC HALF-CELL  
DOUBLE-GLASS MODULE

Sdm590-HBA-A1

Sdm595-HBA-A1

Sdm600-HBA-A1

Sdm605-HBA-A1

## HIGHER OUTPUT POWER

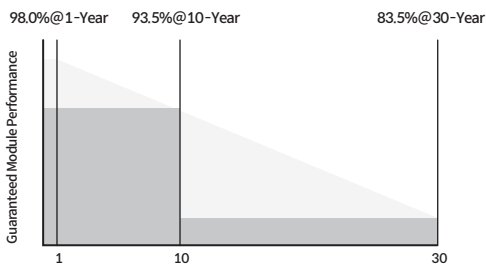
# 21.64% (605 W)

- Up to 21.64% module efficiency
- Based on M10-182mm wafer
- Half-cut and 11-busbar technology for better power generation
- Increased efficiency with excellent bifaciality

## STRONGER DURABILITY

- Minimized micro-cracks
- Better mechanical loading tolerance

## SUPERIOR WARRANTY



- 12-year Product Warranty
- 30-Year Power Output Warranty

solar.sdn-i.com

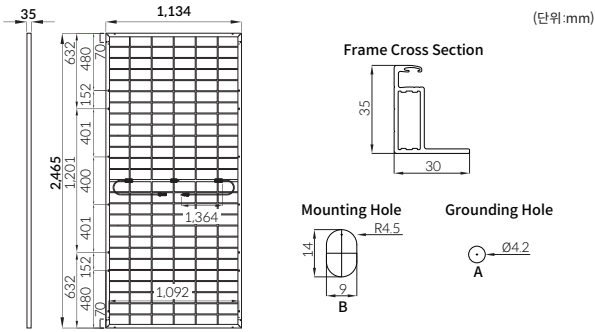


TÜV SÜD  
IEC 61215:2021  
IEC 61730:2021

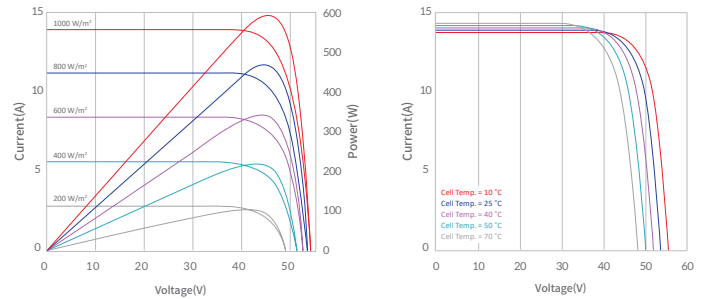
ISO 9001 : Quality management systems

<b>605W</b> OUTPUT	<b>21.64%</b> EFFICIENCY	<b>≤2%</b> FIRST-YEAR DEGRADATION	<b>≤0.5%</b> ANNUAL DEGRADATION FROM YEAR 2-30
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### ENGINEERING DRAWINGS



### IV CURVE BY ILLUMINANCE



### MECHANICAL SPECIFICATIONS

<b>Solar Cells</b>	P-Type Monocrystalline	<b>Connector</b>	MC4
<b>Cell Orientation</b>	156 (6 x 26)	<b>Front Materials</b>	2.0mm, AR Coated Heat Strengthened Glass
<b>Dimensions</b>	2,465mm x 1,134mm x 35mm	<b>Back Materials</b>	2.0mm, Heat Strengthened Glass, White Pattern
<b>Weight</b>	35.9kg	<b>Encapsulant Material</b>	EVA/EPE
<b>Junction Box</b>	IP68 with 3bypass diodes	<b>Frame</b>	Anodized Aluminum Alloy

### ELECTRICAL CHARACTERISTICS

STC <sup>1</sup>					BSTC <sup>2</sup>						
<b>Maximum Power</b>	[W]	590	595	600	605	<b>Maximum Power</b>	[W]	649	655	660	666
<b>Output Tolerance</b>	[%]	0~3%				<b>Open-Circuit Voltage</b>	[V]	53.79	53.95	54.11	54.27
<b>Module Efficiency</b>	[%]	21.11	21.29	21.46	21.64	<b>Short-Circuit Current</b>	[A]	15.31	15.39	15.46	15.53
<b>Open-Circuit Voltage</b>	[V]	53.79	53.95	54.11	54.27	<b>Max. Power Voltage</b>	[V]	45.28	45.45	45.58	45.73
<b>Short-Circuit Current</b>	[A]	13.92	13.99	14.05	14.12	<b>Max. Power Current</b>	[A]	14.34	14.43	14.50	14.58
<b>Max. Power Voltage</b>	[V]	45.28	45.45	45.58	45.73	* STC <sup>1</sup> : The intensity of radiation = 1000 W/m <sup>2</sup> , Module temperature = 25 °C, AM = 1.5 * BSTC <sup>2</sup> : The intensity of radiation = 1000 + φ x135 W/m <sup>2</sup> , Module temperature = 25 °C, AM = 1.5					
<b>Max. Power Current</b>	[A]	13.04	13.12	13.18	13.25						

### SYSTEM PARAMETERS

<b>Operational Temperature</b>	-40 ~ +85 °C
<b>Max. System Voltage</b>	DC 1500V
<b>Max. Series Fuse Rating</b>	30 A

### MECHANICAL LOADING

<b>Front-Side Maximum Static Loading</b>	5400 Pa
<b>Rear Side Maximum Static Loading</b>	2400 Pa

### TEMPERATURE RATINGS

<b>Temperature Coefficient of Pmax</b>	-0.33%/°C
<b>Temperature Coefficient of Voc</b>	-0.25%/°C
<b>Temperature Coefficient of Isc</b>	+0.04%/°C
<b>NOCT (Nominal Operating Cell Temp.)</b>	45 ± 2°C

### WARRANTY

12-Year Product Warranty		
<b>Power Warranty</b>	<b>1-Year</b>	98.0%
	<b>10-Year</b>	93.5%
	<b>30-Year</b>	83.5%

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

