

## SunDay S 10+

## N-Type TOPCon

BIFACIAL N-TYPE HALF-CELL  
DOUBLE-GLASS MODULESdm610-THBB-D1    Sdm615-THBB-D1Sdm620-THBB-D1    Sdm625-THBB-D1Sdm630-THBB-D1    Sdm635-THBB-D1 OPTIMAL CUSTOMER VALUE**22.7%** (635 W)

- Up to 22.7% module efficiency
- Provides optimal LCOE

 HIGH EFFICIENCY CHARACTERISTICS

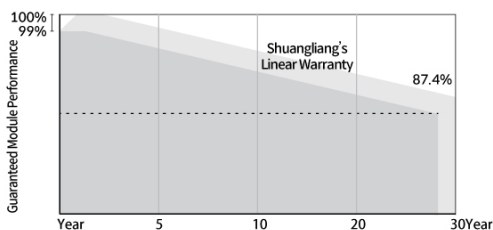
- High Bifacial power generation coefficient (80%)
- Low temperature coefficient (-0.29%/°C)
- High low-light power generation

 HIGH DURABILITY

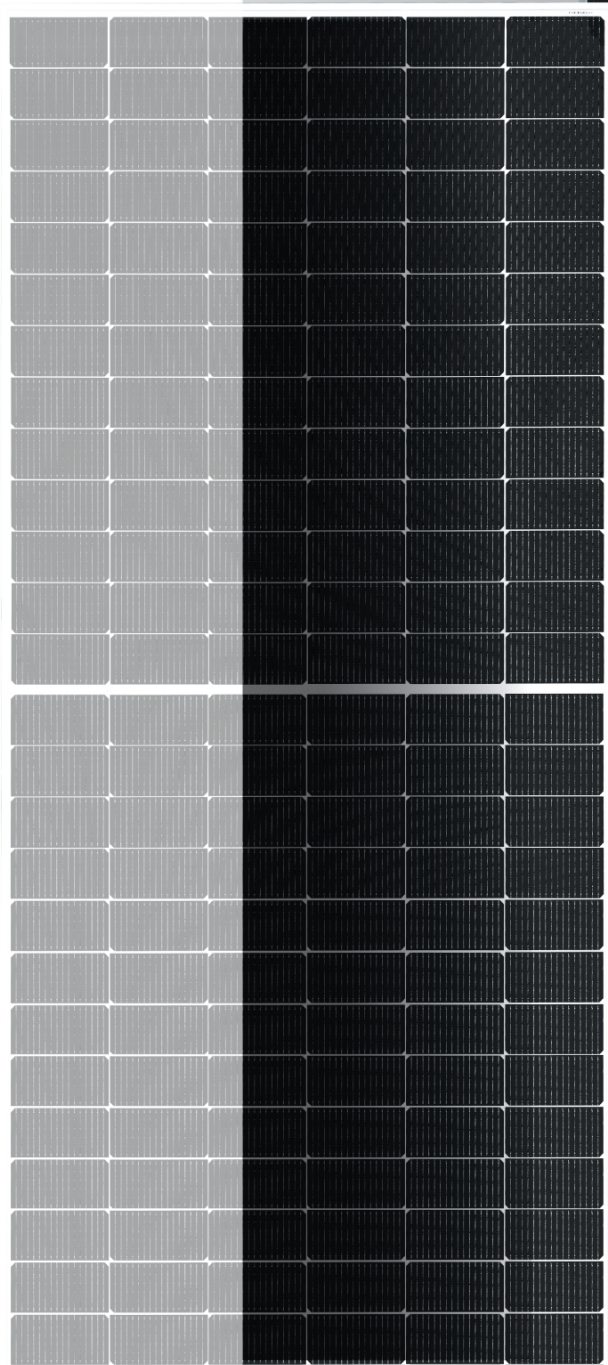
- Application of high-durability bonding materials
- Anti-PID technology
- Interannual degradation rate 0.4%/year or less

 SUNDAYS 10+ SUPERIOR WARRANTY

· 12-year Product Warranty    · 30-year Linear Power Warranty



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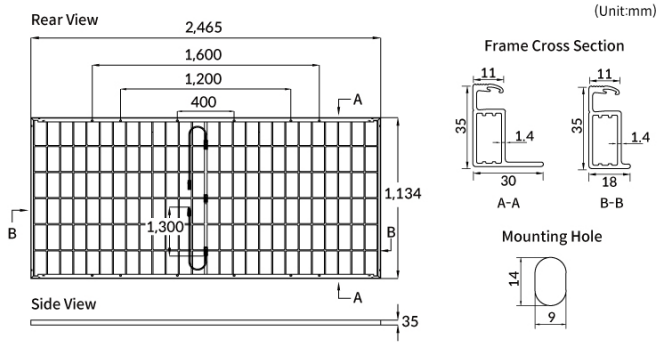
**635W**  
OUTPUT

**22.7%**  
EFFICIENCY

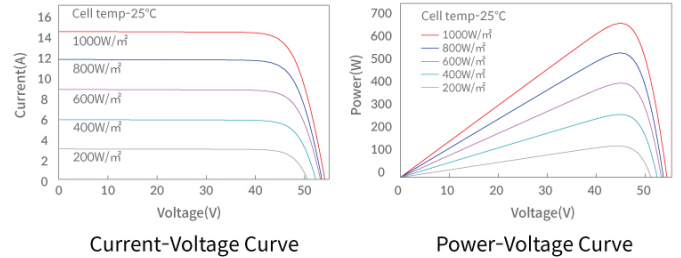
**≤1%**  
FIRST-YEAR DEGRADATION

**≤0.4%**  
ANNUAL DEGRADATION FROM YEAR 2-30

## ENGINEERING DRAWINGS



## IV CURVE BY ILLUMINANCE



## MECHANICAL SPECIFICATIONS

<b>Solar Cells</b>	TopCon N-type / 182.2mm x 183.75mm
<b>Cell Orientation</b>	156 (6 x 26)
<b>Dimensions</b>	2,465mm x 1,134mm x 35mm
<b>Weight</b>	35.9kg
<b>Junction Box</b>	IP68 with 3bypass diodes

<b>Connector</b>	MC4
<b>Front Materials</b>	2.0mm, AR Coated Heat Strengthened Glass
<b>Back Materials</b>	2.0mm, Heat Strengthened Glass, White Pattern
<b>Encapsulant Material</b>	EPE/EPE
<b>Frame</b>	Anodized Aluminum Alloy (Sliver Color)

## ELECTRICAL CHARACTERISTICS

STC <sup>1</sup>		610	615	620	625	630	635
<b>Maximum Power</b>	[W]	610	615	620	625	630	635
<b>Output Tolerance</b>	[W]	0 ~ +5					
<b>Module Efficiency</b>	[%]	21.82	22.00	22.18	22.36	22.54	22.72
<b>Open-Circuit Voltage</b>	[V]	55.30	55.43	55.57	55.71	55.82	55.91
<b>Short-Circuit Current</b>	[A]	14.04	14.12	14.20	14.28	14.36	14.44
<b>Max. Power Voltage</b>	[V]	45.59	45.75	45.92	46.09	46.24	46.34
<b>Max. Power Current</b>	[A]	13.39	13.45	13.51	13.57	13.63	13.71

BSTC <sup>2</sup>		671	677	682	688	693	699
<b>Maximum Power</b>	[W]	671	677	682	688	693	699
<b>Open-Circuit Voltage</b>	[V]	55.30	55.43	55.57	55.71	55.82	55.91
<b>Short-Circuit Current</b>	[A]	15.44	15.53	15.62	15.71	15.80	15.88
<b>Max. Power Voltage</b>	[V]	45.59	45.75	45.92	46.09	46.24	46.34
<b>Max. Power Current</b>	[A]	14.73	14.80	14.86	14.93	14.99	15.08

- <sup>1</sup> STC<sup>1</sup>: The intensity of radiation = 1000 W/m<sup>2</sup>, Module temperature = 25 °C, AM = 1.5
- <sup>2</sup> BSTC<sup>2</sup>: The intensity of radiation = 1000 + φ x 135 W/m<sup>2</sup>, Module temperature = 25 °C, AM = 1.5

## 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>	- 0.290%/°C
<b>Temperature Coefficient of Voc</b>	- 0.250%/°C
<b>Temperature Coefficient of Isc</b>	+ 0.045%/°C
<b>NOCT (Nominal Operating Cell Temp.)</b>	45 ± 2°C

## WARRANTY

12-Year Product Warranty		
<b>Power Warranty</b>	<b>1-Year</b>	99.0%
	<b>10-Year</b>	95.4%
	<b>30-Year</b>	87.4%

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

