

# SolarPark Powermodule™



SolarPark

SPP 220 | 225 | 230 | 235 | 240 | 245

**25**  
YEAR  
WARRANTY

ADDITIONAL 5% VALUE:  
25-YEAR "STRAIGHT  
LINE WARRANTY"\*

**10**  
YEAR  
WARRANTY

LONG-TERM SECURITY:  
10-YEAR PRODUCT  
WARRANTY

**+**

HIGHER SYSTEM YIELDS  
(up to +5W/-0W)  
THROUGH PowerPlus  
SORTING\*\*

**3x**  
IEC

TRIPLE-TESTED FOR  
GREATER  
DEPENDIBILITY

**Magnifying Glass**

PREMIUM QUALITY  
THROUGH  
AUTOMATION

**Fire**

FIRE SAFETY  
UL790 TESTED

**Storm**

STORM-PROOF ULTRA-  
CLEAR TEMPERED SAFETY  
GLASS

**Lightning**

ELECTRICAL SAFETY WITH  
SILICONE SEALANT &  
MULTI-LAYER BACK SHEET

**Snow**

HAIL PROTECTION &  
HEAVY SNOW LOAD  
TESTED

**Hammer**

FARM-FRIENDLY:  
NH<sub>3</sub> RESISTANCE  
TESTED \*\*\*



SolarPark **Powermodules™** will suit your every need. Combining the finest raw materials with state-of-the-art automation technology, and backed by an industry-leading 25-year guarantee\*, our **Powermodules™** deliver top-notch quality you can rely on – **QUALITY MADE IN KOREA.**

\*1<sup>st</sup> year performance guarantee of 96% of labeled Pmax, followed by an annual decrease of 0.66%, which guarantees at least 80.2% of Pmax after the 25<sup>th</sup> year.

\*\* SolarPark's PowerPlus Sorting (positive sorting): actual > rated power: tolerance only extends to positive deviations (additionally up to +5W/-0W).

\*\*\* Certified by TÜV Rheinland.

## I. PERFORMANCE

### Standard Test Conditions (STC)<sup>\*,\*\*</sup>

Performance at 25 °C under 1,000 W/m<sup>2</sup>, AM 1.5  
at 200 W/m<sup>2</sup>, 95 % of STC- efficiency is achieved [EN 60904-1]

	P <sub>mpp</sub> [W]	V <sub>oc</sub> [V]	V <sub>mpp</sub> [V]	I <sub>sc</sub> [A]	I <sub>mpp</sub> [A]
SPP 220	220	36.5	29.2	8.09	7.55
SPP 225	225	36.8	29.6	8.17	7.62
SPP 230	230	36.9	29.8	8.26	7.73
SPP 235	235	37.0	30.1	8.35	7.84
SPP 240	240	37.2	30.3	8.44	7.93
SPP 245	245	37.4	30.4	8.54	8.06

### Normal Operating Cell Temperature (NOCT)

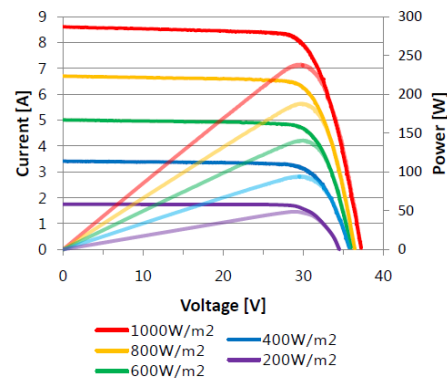
Performance at 46 °C under 800 W/m<sup>2</sup>, AM 1.5

	P <sub>mpp</sub> [W]	V <sub>oc</sub> [V]	V <sub>mpp</sub> [V]	I <sub>sc</sub> [A]	I <sub>mpp</sub> [A]
SPP 220	158	33.1	26.3	6.69	6.01
SPP 225	161	33.2	26.6	6.76	6.09
SPP 230	165	33.3	26.8	6.83	6.16
SPP 235	170	33.4	27.2	6.75	6.27
SPP 240	173	33.6	27.3	6.79	6.38
SPP 245	176	33.8	27.4	6.99	6.44

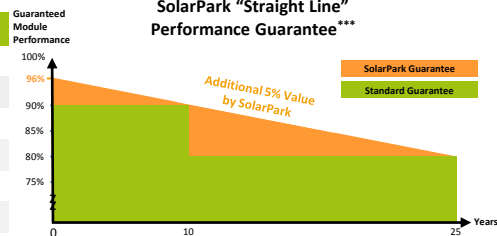
\* Sun simulation measurement tolerance (Class AAA Flasher): +/- 3%.

\*\* SolarPark's PowerPlus Sorting (positive sorting): actual > rated power: tolerance only extends to positive deviations (additionally up to +5W/-0W).

### Current-Voltage Curve



### SolarPark "Straight Line" Performance Guarantee<sup>\*\*\*</sup>



<sup>\*\*\*</sup> 1<sup>st</sup> year performance guarantee of 96% of labeled P<sub>max</sub>, followed by an annual decrease of 0.66%, which guarantees at least 80.2% of P<sub>max</sub> after the 25<sup>th</sup> year..

## II. MODULE ARCHITECTURE

<b>Solar Cell</b>	Multicrystalline Silicon
<i>Dimension</i>	6 Inch (156 x 156 mm)
<i>Cell Array</i>	10 x 6, total 60 Cells

**Glass** Ultra-Clear Tempered Safety Glass

**Encapsulant** Hi-Performance EVA

**Frame** Heat-Treated Aluminum

**Back Sheet** Multilayer Composite

<b>Junction Box</b>	Performance PPE
<i>Protection Rating</i>	IP67
<i>Bypass Diodes</i>	3

**Cable** IEC and/or UL

<b>Connector</b>	Genuine MC3 or MC4
<i>Protection Rating</i>	IP67

<b>Module</b>	
<i>Dimension</i>	1,675 x 1,001 x 34 mm
<i>Weight, Module</i>	19 kg
<i>Weight, Pallet</i>	620 kg
<i>(30pcs)</i>	

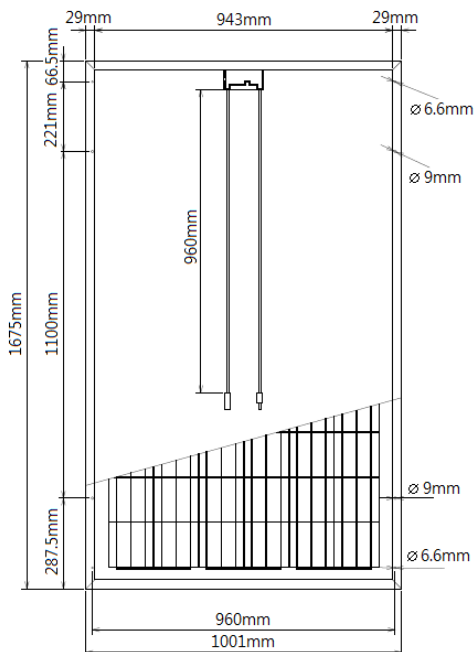
## III. THERMAL CHARACTERISTICS

<b>TC Max. Power Point (TC P<sub>mpp</sub>)</b>	-0.45 %/K
<b>TC Open Circuit Voltage (TC V<sub>oc</sub>):</b>	-0.35 %/K
<b>TC Short Circuit Current (TC I<sub>sc</sub>):</b>	0.034 %/K

## IV. SAFETY INFORMATION

<b>Max. System Voltage:</b>	1,000 V <sub>DC</sub>
<b>Max. Reverse Current Rating:</b>	16 A
<b>Series Fuse Rating:</b>	15 A
<b>IEC Protection Class</b>	Safety Class II
<b>Max. Load:</b>	5,400 N/m <sup>2</sup> (Heavy Snow Load)

All Specifications are in compliance with EN 50380, and are subject to change without prior notice.



Please read the respective SolarPark Powermodule™ Safety & Installation Manual prior to handling, installing and operating SolarPark Powermodules™. Electrical work should only be performed by qualified personnel.

**IMPORTANT!**

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