

SolarPark Korea

Powermodule™ Smart Series



SPP 230 | 235 | 240 | 245 | 250 smart



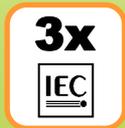
ADDITIONAL 5% VALUE:
25-YEAR "STRAIGHT
LINE WARRANTY"*



LONG-TERM SECURITY:
10-YEAR PRODUCT
WARRANTY



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



TRIPLE-TESTED FOR
GREATER
DEPENDABILITY



PREMIUM QUALITY
THROUGH
AUTOMATION



FIRE SAFETY
UL790 TESTED



STORM-PROOF ULTRA-
CLEAR TEMPERED SAFETY
GLASS



ELECTRICAL SAFETY WITH
SILICONE SEALANT &
MULTI-LAYER BACK SHEET



HAIL PROTECTION &
HEAVY SNOW LOAD
TESTED



SolarPark korea **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.**

*1st year performance guarantee of 96% of labeled P_{max}, followed by an annual decrease of 0.66%, which guarantees at least 80.2% of P_{max} after the 25th year.

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

I. PERFORMANCE

Standard Test Conditions (STC)

Performance at 25 °C under 1,000 W/m², AM 1.5
at 200 W/m², 95 % of STC- efficiency is achieved [EN 60904-1]

	P _{mpp} [W]	V _{oc} [V]	V _{mpp} [V]	I _{sc} [A]	I _{mpp} [A]	Efficiency
SPP 230 smart	230	36.9	29.8	8.26	7.73	14.13%
SPP 235 smart	235	37.0	30.1	8.35	7.84	14.44%
SPP 240 smart	240	37.2	30.3	8.44	7.93	14.75%
SPP 245 smart	245	37.4	30.4	8.54	8.06	15.05%
SPP 250 smart	250	37.5	30.7	8.63	8.15	15.36%

II. THERMAL CHARACTERISTICS

Nominal operating cell temperature (NOCT)

46±2 °C

Temperature coefficient of P_{mpp}

-0.45 %/°C

Temperature coefficient of V_{oc}

-0.35 %/°C

Temperature coefficient of I_{sc}

0.034 %/°C

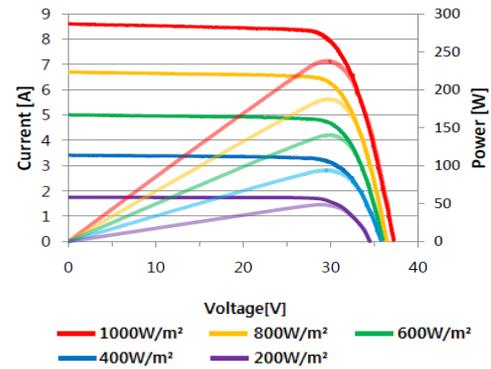
*Sun simulation measurement tolerance (Class AAA Flasher): +/- 3%.

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

III. MODULE ARCHITECTURE

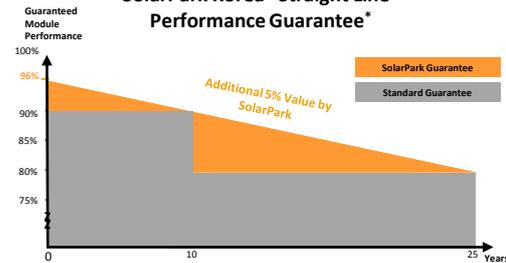
Solar Cell	Multicrystalline Silicon, 156 x 156 mm (6 Inch)
Cell Array	10 x 6, total 60 Cells
Glass	3.2mm Tempered Glass
Frame	Anodized aluminum alloy
Junction Box	IP67 rated (3 Bypass Diodes)
Cable	IEC and/or UL
Connector	H4 (MC4 compatible)
Protection Rating	IP67
Module	
Dimension	1,640 x 992 x 34 mm (64.6 x 39.1 x 1.4 inches)
Weight, Module	18 kg (39.6lbs.)

I-V & V-P Curve

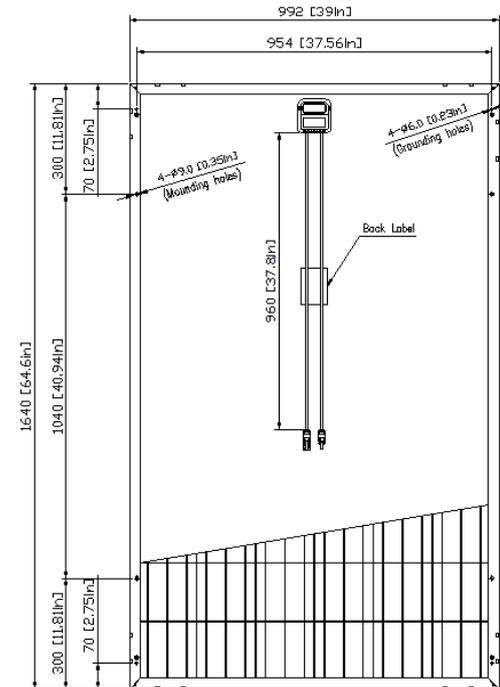


Reference Data for 250W model. Cell Temp. 25 °C

SolarPark Korea "Straight Line" Performance Guarantee*



* 1st year performance guarantee of 96% of labeled P_{max}, followed by an annual decrease of 0.66%, which guarantees at least 80.2% of P_{max} after the 25th year.



IV. SAFETY INFORMATION

Max. System Voltage:	1,000 V _{DC/IEC}
Max. Reverse Current Rating:	16 A
Series Fuse Rating:	15 A
IEC Protection Class:	Safety Class II
Fire Safety Classification	Class C
Operating Temperature:	-40 ~ +85 °C
IEC Max. Snow Test Load:	5,400 Pa

V. PACKING CONFIGURATION

Container	40' HC
Piece per pallet	30
Pallets per container	28
Pieces per container	840



IMPORTANT!

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

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



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