Smart Panel

Monocrystalline PERC Panel with Split Cell Technology and Integrated Power Optimiser

SPV370-R60DWMG-6M4Cxx - SPV375-R60DWMG-6M4Cxx

SMART PANEL

PV to grid solution including full service from SolarEdge

- Easy installation with Panel pre-assembled power optimiser
- Optimized energy output by constantly tracking the maximum power point (MPPT) of each Panel individually
- Panel-level voltage shutdown for installer and firefighter safety
- Full visibility of system performance from Panel to grid
- Superior quality control with full automatic production line
- Excellent mechanical loading and shock resistance performance
- Elegant design with black frame
- 25-year panel and performance warranty
- Specifically designed to work with SolarEdge inverters

*Applicable for P/N SPV37x-R60DWMG-6M4Cxx

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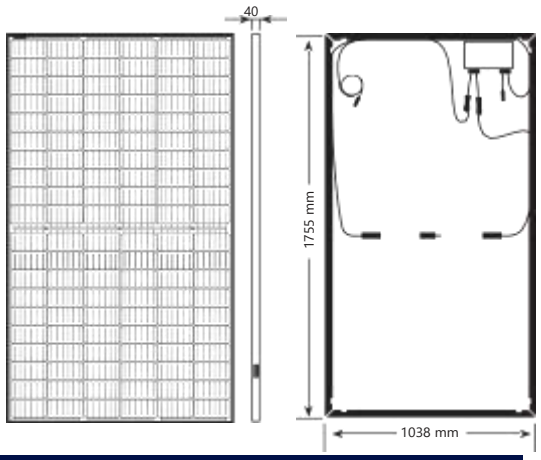
PANEL ELECTRICAL PROPERTIES Applicable to SPV with P/N	SPV370-R60DWMG-6M4Cxx	SPV375-R60DWMG-6M4Cxx	
STC(1)	**SPV370-R60DWMG**	**SPV375-R60DWMG**	
Panel Power	370	375	W
Max. Power Voltage (Vmp)	33.95	34.10	V
Max. Power Current (Imp)	10.91	11.01	A
Open Circuit Voltage (Voc)	41.72	41.89	V
Short Circuit Current (Isc)	11.32	11.43	A
Maximum System Voltage	1000		Vdc
Maximum Series Fuse Rating	20		A
Panel Efficiency	19.80	20.07	%
Power Bin Sorting	0 ~ +5		W
Power Production Tolerance	+/- 3		%
NOCT(2)			
Panel Power	277	281	W
Max. Power Voltage (Vmp)	31.17	31.30	V
Max. Power Current (Imp)	8.90	8.98	A
Open Circuit Voltage (Voc)	38.86	39.02	V
Short Circuit Current (Isc)	9.30	9.39	A

PANEL MECHANICAL PROPERTIES		
Cells	120 (6 x 20)	
Cell Type	Monocrystalline PERC	
Cell Dimensions	166 x 83	mm
Dimensions (L x W x H)	1755 x 1038 x 40*	mm
Front Side Maximum Load (Snow)	5400	Pa
Rear Side Maximum Load (Wind)	2400	Pa
Hailstone Test	35mm hailstone at speed of 23m/s	
Weight (with Power Optimiser)	22*	kg
Front Glass	3.2mm, coated tempered glass	
Frame	Black anodized aluminium	
Junction Box	IP68, three diodes	
Connector Type	Genuine MC4	
Fire Safety Class	Class C	
Operating Temperature	-40 to +85	°C
Packaging Information (units per pallet)	26	

* The dimensions and weight displayed in this table apply to modules manufactured from February 2021 (SPVxxx-R60DWMG-2M2C01). Modules manufactured prior to February 2021 (SPVxxx-R60DWMG-2C01) have dimensions of 1776 x 1052 x 40 mm and weigh 23.0 kg



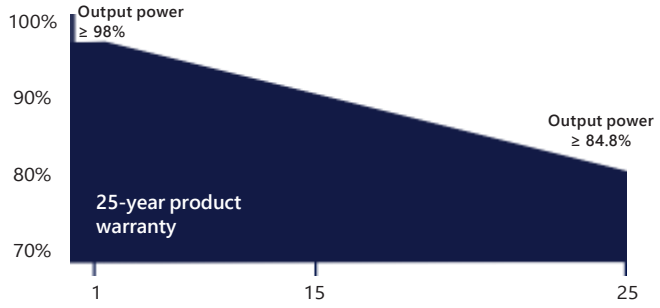
CERTIFICATIONS & WARRANTY		
Panel Certifications	IEC61215:2016, IEC61730:2016, AU listing CEC, Ammonia, PID, Salt-mist	
Product Warranty	Power Optimiser — 25-year warranty, Panel — 25-year warranty	
Output Warranty of Pmax	25-year linear Panel warranty(3)	

TEMPERATURE CHARACTERISTICS		
Temperature Coefficient Power (Pm)	-0.364	% / °C
Temperature Coefficient Voltage (Voc)	-0.281	% / °C
Temperature Coefficient Current (Isc)	0.039	% / °C
Operating Cell Temperature (NOCT)	45 ± 2	°C

(1) STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5
(2) NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s
(3) 1st year: 98%, 84.8% power output over 25 years

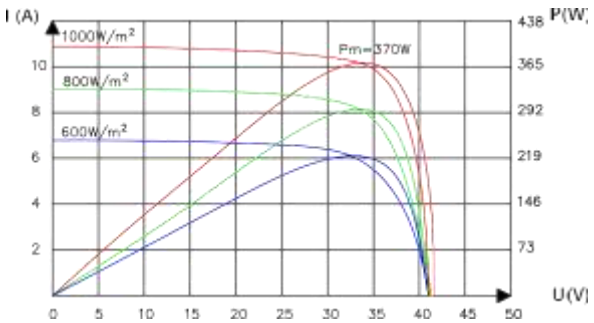
Linear Warranty

*25-Year Product Warranty
+ 25-Year Linear Power Warranty



Made in China

Panel I-V Curve (SPV370-R60DWMG-6M4Cxx)



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POWER OPTIMISER PROPERTIES Applicable for P/N	SPV37x-R60DWMG-6M4Cxx	
INPUT		
Rated Input DC Power	440	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	
MPPT Operating Range	8 - 60	Vdc
Maximum Short Circuit Current (Isc)	14.5	Adc
Maximum Efficiency	99.5	%
Weighted Efficiency	98.6	%
Overvoltage Category	II	
OUTPUT DURING OPERATION (POWER OPTIMISER CONNECTED TO OPERATING SOLAREDGE INVERTER)		
Maximum Output Current	15	Adc
Maximum Output Voltage	60	Vdc
OUTPUT DURING STANDBY (POWER OPTIMISER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVERTER OFF)		
Safety Output Voltage per Power Optimiser	1 ± 0.1	Vdc
STANDARD COMPLIANCE		
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3	
Safety	IEC62109-1 (class II safety), UL1741	
RoHS	Yes	
Fire Safety	VDE-AR-E 2100-712:2013-05	
INSTALLATION SPECIFICATIONS		
Output Connector	MC4	
Output Wire Length	(+) 2.3, (-) 0.10	m
Operating Temperature Range	-40 to +85	˚C
Protection Rating	IP68 / NEMA6P	
Relative Humidity	0 - 100	%

PV System Design Using a SolarEdge Inverter*	Single Phase HD-Wave	Single Phase	Three Phase	Three Phase for 277/480 Grid	
Minimum String Length (Power Optimiser)[5]	8		16	18	
Maximum String Length (Power Optimisers)	25		50		
Maximum Power per String	5700	5250	11250[6]	12750[7]	W
Parallel Strings of Different Lengths or Orientations	Yes				

* It is not allowed to mix SPVxxx-R60DWMG-2M2Cxx and SPVxxx-R60DWMG-6M4Cxx in new installations.
(5) Smart Panels cannot be used with the SE3K three phase inverter (available in some countries; refer to the three phase inverter SE3K-SE10K datasheet).
(6) For the 230/400V grid: it is allowed to install up to 13,500W per string when the maximum power difference between each string is 2,000W.
(7) For the 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W.

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