

## Smart Panel

### Monocrystalline PERC Panel with Split Cell Technology and Integrated Power Optimiser

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



### 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

# Smart Panel

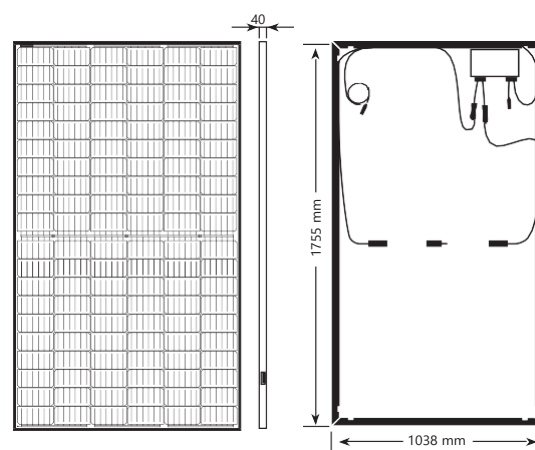
## Monocrystalline PERC Panel with Split Cell Technology and Integrated Power Optimiser

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

PANEL ELECTRICAL PROPERTIES	SPV370-R60DWMG-6M4Cxx	SPV375-R60DWMG-6M4Cxx	
Applicable to SPV with P/N			
<b>STC<sup>(1)</sup></b>	<b>SPV370-R60DWMG</b>	<b>SPV375-R60DWMG</b>	
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	%
<b>NOCT<sup>(2)</sup></b>			
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

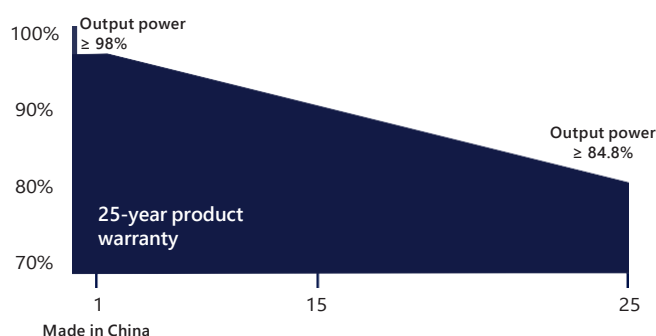


CERTIFICATIONS & WARRANTY		
Panel Certifications	IEC61215:2016, IEC61730:2016, AU listing CEC, Ammonia, PID, Salt-mist	
Product Warranty	Power Optimiser — 25-year warranty, Panel — 25-year warranty	
Output Warranty of Pmax	25-year linear Panel warranty <sup>(3)</sup>	

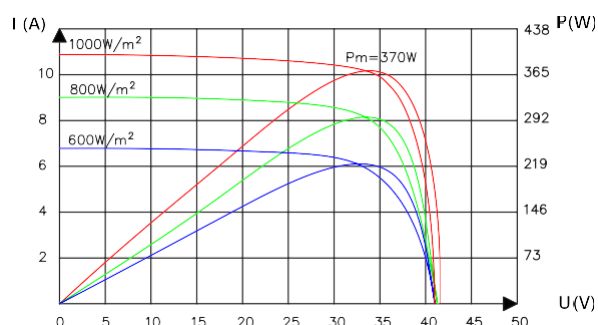
TEMPERATURE CHARACTERISTICS		
Temperature Coefficient Power (Pm)	-0.364	% / °C
Temperature Coefficient Voltage (Voc)	-0.281	% / °C
Temperature Coefficient Current (Isc)	0.039	% / °C
Operating Cell Temperature (NOCT)	45 ± 2	°C

(1) STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5  
 (2) NOCT: Irradiance at 800 W/m<sup>2</sup>, 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



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



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## Monocrystalline PERC Panel with Split Cell Technology and Integrated Power Optimiser

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POWER OPTIMISER PROPERTIES		SPV37x-R60DWMG-6M4Cxx	
Applicable for P/N			
<b>INPUT</b>			
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		
<b>OUTPUT DURING OPERATION (POWER OPTIMISER CONNECTED TO OPERATING SOLAREEDGE INVERTER)</b>			
Maximum Output Current	15		Adc
Maximum Output Voltage	60		Vdc
<b>OUTPUT DURING STANDBY (POWER OPTIMISER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)</b>			
Safety Output Voltage per Power Optimiser	1 ± 0.1		Vdc
<b>STANDARD COMPLIANCE</b>			
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		
<b>INSTALLATION SPECIFICATIONS</b>			
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) <sup>(5)</sup>	8		16	18	
Maximum String Length (Power Optimisers)	25			50	
Maximum Power per String	5700	5250	11250 <sup>(6)</sup>	12750 <sup>(7)</sup>	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.