Smart Module

Monocrystalline PERC Module with Half-Cut Cell Technology and Integrated Power Optimizer

SPV370-R60JWMG, SPV375-R60JWMG



PV to grid solution including full service from SolarEdge

- 25-year module warranty and performance warranty
- Easy installation with module pre-assembled power optimizer
- Optimized energy output by constantly tracking the maximum power point (MPPT) of each module individually
- Module-level voltage shutdown for installer and firefighter safety
- Full visibility of system performance from module to grid

- Superior quality control with full automatic production line
- Excellent mechanical loading and shock resistance performance
- Detects abnormal PV connector behavior, preventing potential safety issues
- Specifically designed to work with SolarEdge inverters
- Faster installations with simplified cable management and easy assembly using a single bolt



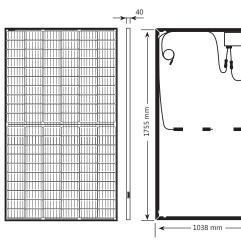
/ Smart Module

SPV370-R60JWMG, SPV375-R60JWMG

MODULE ELECTRICAL PROPERTIES

STC ⁽¹⁾	SPV370-R60JWMG	SPV375-R60JWMG	
Module Power	370	375	W
Max. Power Voltage (Vmp)	34.08	34.28	V
Max. Power Current (Imp)	10.86	10.95	A
Open Circuit Voltage (Voc)	41.30	41.50	V
Short Circuit Current (Isc)	11.37	11.46	A
Maximum System Voltage	1500		Vdc
Maximum Series Fuse Rating	20		A
Module Efficiency	20.31	20.59	%
NMOT ⁽²⁾			
Module Power	278.5	282.2	W
Max. Power Voltage (Vmp)	32.05	32.22	V
Max. Power Current (Imp)	8.69	8.76	A
Open Circuit Voltage (Voc)	38.99	39.18	V
Short Circuit Current (Isc)	9.15 9.23		A
Measurement Tolerance	±3%		Pmax
	±3%		
	±5%		

MODULE 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		
Weight (with Power Optimizer)	20.2	kg		
Front Glass	3.2mm, coated tempered glass			
Frame	Black anodized aluminum			
Junction Box	IP68, three diodes			
Connector Type	MC4 EVO2			
Operating Temperature	-40 to +85	°C		
Packaging Information (units per pallet)	31			



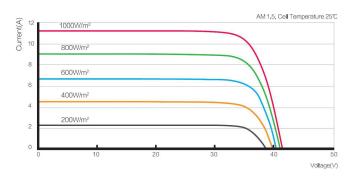
Module Certifications	IEC61215:2016, IEC61730:2016, AU listing CEC, Ammonia, PID, Salt-mist		
roduct Warranty Power Optimizer — 25-year warranty, Module — 25-year warranty			
Output Warranty of Pmax	25-year linear module warranty ⁽³⁾		
TEMPERATURE CHARACTERISTICS			
Temperature Coefficient Power (Pm)	-0.37	%/°C	
	-0.37 -0.29	%/°C %/°C	
Temperature Coefficient Power (Pm)			

(1) STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 (2) NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

(3) 1st year: 97.5%, 83.1% power output over 25 years



Panel I-V Curve (SPV370-R60JWMG)



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	S440	UNIT		
INPUT				
Rated Input DC Power ⁽¹⁾	440			
Absolute Maximum Input Voltage (Voc)	60			
MPPT Operating Range	8 - 60	Vdc		
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	Adc		
Maximum Efficiency	99.5			
Weighted Efficiency	98.6	%		
Overvoltage Category	l			
OUTPUT DURING OPERATION				
Maximum Output Current	15	Adc		
Maximum Output Voltage	60	Vdc		
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCO	ONNECTED FROM INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1	Vdc		
STANDARD COMPLIANCE				
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011			
Safety	IEC62109-1 (class II safety), UL1741			
Material	UL94 V-0, UV Resistant			
RoHS	Yes			
Fire Safety	VDE-AR-E 2100-712:2013-05			
INSTALLATION SPECIFICATIONS		·		
Maximum Allowed System Voltage	1000	Vdc		
Dimensions (W x L x H)	129 x 153 x 30			
Weight (including cables)	655 / 1.5	gr / lb		
Input Connector	MC4 ⁽²⁾			
Input Wire Length	0.1	m		
Output Connector	MC4			
Output Wire Length	(+) 2.3, (-) 0.10	m		
Operating Temperature Range ⁽³⁾	-40 to +85	°C		
Protection Rating	IP68 / NEMA6P			
Relative Humidity	0 - 100			

(1) Rated power of the module at STC will not exceed the power optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed

(2) For other connector types please contact SolarEdge

(3) For ambient temperature above +70°C / +158°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Usi Inverter	ing a SolarEdge	Single Phase HD-Wave	Single Phase	Three Phase	Three Phase for 277/480V grid	
Minimum String Length (Power Optimizers)	S440	8	8		18	
Maximum String Length (Power Optimizers)		25			50	
Maximum Nominal Power per	String ⁽⁴⁾	5700	5250	11250(5)	12750(6)	W
Parallel Strings of Different Lengths or Orientations				Yes		

(4) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
(5) 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
(6) 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
(7) It is not allowed to mix S-series power optimizers in new installations

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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