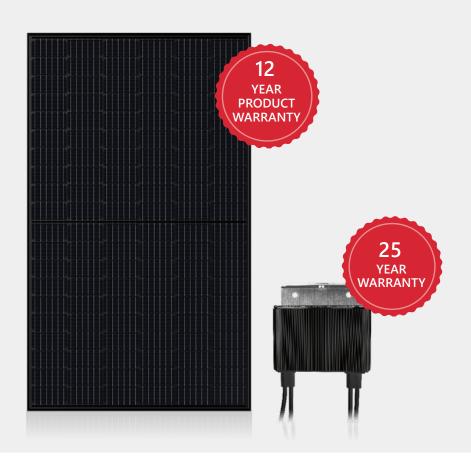
Smart Module

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

SPV345-R60LBMG - SPV360-R60LBMG



SMART MODULE

PV to grid solution including full service from SolarEdge

- 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
- Elegant design with an all-black module
- 12-year module warranty and 25-year performance warranty
- Specifically designed to work with SolarEdge inverters



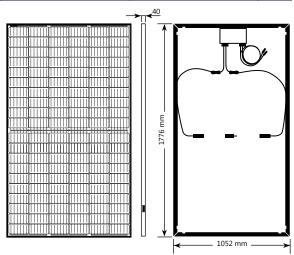
/ Smart Module

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

SPV345-R60LBMG - SPV360-R60LBMG

STC ⁽¹⁾	SPV345-R60LBMG	SPV350-R60LBMG	SPV355-R60LBMG	SPV360-R60LBMG	
Module Power	345	350	355	360	W
Max. Power Voltage (Vmp)	34.2	34.4	34.6	34.8	V
Max. Power Current (Imp)	10.09	10.18	10.27	10.35	А
Open Circuit Voltage (Voc)	40.2	40.4	40.6	40.8	V
Short Circuit Current (Isc)	11.06	11.16	11.25	11.33	А
Maximum System Voltage	1000				
Maximum Series Fuse Rating	20				
Module Efficiency	18.5	18.7	19.0	19.8	%
Power Tolerance	0 ~ +5				
NOCT ⁽²⁾					
Module Power	255.6	259.3	263.0	266.7	W
Max. Power Voltage (Vmp)	31.6	31.8	32.0	32.1	V
Max. Power Current (Imp)	8.09	8.16	8.23	8.30	А
Open Circuit Voltage (Voc)	37.5	37.7	37.9	38.1	V
Short Circuit Current (Isc)	8.92	8.99	9.06	9.13	А

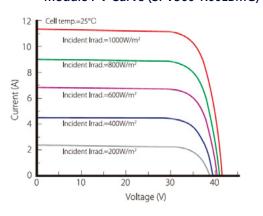
Cells	120 (6 x 20)	
Cell Type	Monocrystalline PERC	
Cell Dimensions	166 x 83	mm
Dimensions (L x W x H)	1776 x 1052 x 40	mm
Front Side Maximum Load (Snow)	5400	Pa
Rear Side Maximum Load (Wind)	2400	Pa
Weight (with Power Optimizer)	20.7	kg
Front Glass	3.2mm, coated tempered glass	
Frame	Black anodized aluminium	
Junction Box	IP68, three diodes	
Connector Type	MC4	
Operating Temperature	-40 to +85	°C
Packaging Information (units per pallet)	26	



Module Certifications	IEC 61215:2016, IEC61730:2016	
Product Warranty	Power Optimizer — 25-year warranty, Module — 12-year warranty	
Output Warranty of Pmax	25-year linear module warranty ⁽³⁾	
TEMPERATURE CHARACTERISTICS		
Temperature Coefficient Power (Pm)	-0.350	%/°C
Temperature Coefficient Voltage (Voc)	-0.270	%/°C
Temperature Coefficient Current (Isc)	0.048	%/°C
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Linear Warranty 12-Year Product Warranty + 25-Year Linear Power Warranty Output power 100% 90% Output power 80% 12-year product warranty 70% 12 25

Module I-V Curve (SPV360-R60LBMG)



⁽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

/ Smart Module

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

SPV345-R60LBMG - SPV360-R60LBMG

INPUT		
Rated Input DC Power	375	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	***
MPPT Operating Range	8 - 60	Vdc
Maximum Short Circuit Current (Isc)	11.75	Adc
Maximum Effeciency	99.5	%
Weighted Effeciency	98.8	%
Overvoltage Category	II	
OUTPUT DURING OPERATION (POWER OPTIM	MIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)	
Maximum Output Current	15	
Maximum Output Voltage	60	Vdc
, ,	ZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAI	
OUTPUT DURING STANDBY (POWER OPTIMIZ	**	
OUTPUT DURING STANDBY (POWER OPTIMIZ OFF)	ZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAI	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZ OFF) Safety Output Voltage per Power Optimizer	ZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAI	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZ OFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE	ZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAI 1 ± 0.1	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZ OFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE EMC	TER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAI 1 ± 0.1 FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZOFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE EMC Safety	TECC Part 15 Class B, IEC61000-6-2, IEC61000-6-3 IEC62109-1 (class II safety), UL1741	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZOFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE EMC Safety ROHS	TEC Part 15 Class B, IEC61000-6-2, IEC61000-6-3 IEC62109-1 (class II safety), UL1741 Yes	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZOFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE EMC Safety RoHS Fire Safety	TEC Part 15 Class B, IEC61000-6-2, IEC61000-6-3 IEC62109-1 (class II safety), UL1741 Yes	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZOFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE EMC Safety ROHS Fire Safety INSTALLATION SPECIFICATIONS	TEC Part 15 Class B, IEC61000-6-2, IEC61000-6-3 IEC62109-1 (class II safety), UL1741 Yes VDE-AR-E 2100-712:2013-05	REDGE INVERTER
OUTPUT DURING STANDBY (POWER OPTIMIZOFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE EMC Safety ROHS Fire Safety INSTALLATION SPECIFICATIONS Output Connector	TEC Part 15 Class B, IEC61000-6-2, IEC61000-6-3 IEC62109-1 (class II safety), UL1741 Yes VDE-AR-E 2100-712:2013-05 MC4	REDGE INVERTER Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZOFF) Safety Output Voltage per Power Optimizer STANDARD COMPLIANCE EMC Safety ROHS Fire Safety INSTALLATION SPECIFICATIONS Output Connector Output Wire Length	TEC Part 15 Class B, IEC61000-6-2, IEC61000-6-3 IEC62109-1 (class II safety), UL1741 Yes VDE-AR-E 2100-712:2013-05 MC4 1.2 / 3.9	REDGE INVERTER Vdc

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 Optimizer) ⁽⁴⁾	8		16	18	
Maximum String Length (Power Optimizers)	25		50		
Maximum Power per String	5700	5250	11250 ⁽⁵⁾	12750 ⁽⁶⁾	W
Parallel Strings of Different Lengths or Orientations	Yes				

⁽⁴⁾ Smart modules cannot be used with the SE3K three phase inverter (available in some countries; refer to the three phase inverter SE3K-SE10K datasheet) (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.