Smart Module

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

SPV355-R60DBMG, SPV360-R60DBMG



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
- 25 years module warranty and performance warranty
- Specifically designed to work with SolarEdge inverters



/ Smart Module

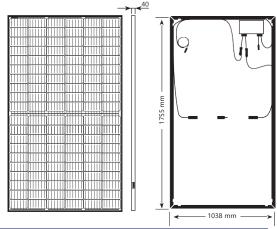
Monocrystalline PERC Module with Half-Cut Cell Technology and Integrated Power Optimizer

SPV355-R60DBMG, SPV360-R60DBMG

Applicable to SPV with P/N	SPV355-R60DBMG-6M4Cxx	SPV360-R60DBMG-6M4Cxx	
STC ⁽¹⁾			
Module Power	355	360	W
Max. Power Voltage (Vmp)	33.74	33.87	V
Max. Power Current (Imp)	10.53	10.63	A
Open Circuit Voltage (Voc)	41.51	41.66	V
Short Circuit Current (Isc)	10.96	11.07	A
Maximum System Voltage	1000		Vdc
Maximum Series Fuse Rating	20		
Module Efficiency	19.0	19.27	%
Power Measurement Tolerance	0 ~	+5	W
NOCT ⁽²⁾			
Module Power	266	270	W
Max. Power Voltage (Vmp)	30.97	31.09	V
Max. Power Current (Imp)	8.59	8.67	A
Open Circuit Voltage (Voc)	38.66	38.80	V
Short Circuit Current (Isc)	9.01	9.10	А

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)	22*	kg		
Front Glass	3.2mm, coated tempered glass			
Frame	Black anodized aluminium			
Junction Box	IP68, three diodes			
Connector Type	Staubli MC4			
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 Modules manufactured prior to February 2021 (SPVxxx-R60DBMG-2C01) have dimensions of 1776 x 1052 x 40 mm and weigh 23.0 kg



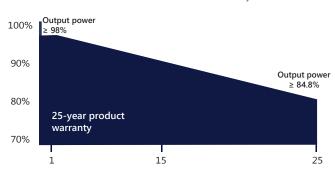
Module Certifications	IEC61215:2016, IEC61730:2016, AU listing CEC, Ammonia, PID, Salt-mist	
Product Warranty	Power Optimizer — 25-year warranty, Module — 25-year warranty	
Output Warranty of Pmax	25-year linear module warranty ⁽³⁾	
TEMPERATURE CHARACTERISTICS		
Temperature Coefficient Power (Pm)	-0.364	%/°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

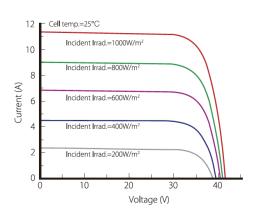


*25-Year Product Warranty

+ 25-Year Linear Power Warranty



Module I-V Curve (SPV360-R60DBMG)



/ Smart Module

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

SPV355-R60DBMG-6M4Cxx, SPV360-R60DBMG-6M4Cxx

INPUT		
Rated Input DC Power	440	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	60	Vdc
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 (POWE	R OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)	·
Maximum Output Current	15	Adc
Maximum Output Voltage	60	Vdc
OUTPUT DURING STANDBY (POWER OFF)	OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLA	REDGE
Safety Output Voltage per Power Optimizer	1 ± 0.1	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	
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	
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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		\	/es		

⁽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 diference 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 diference between each string is 2,000W *Its not allowed to mix SPVxxx-R60DBMG-2M2Cxx and SPVxxx-R60DBMG-6M4Cxx in new installations