Smart Module

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

SPV355-R60DBMG, SPV360-R60DBMG, SPV370-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



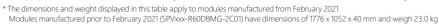
/ Smart Module

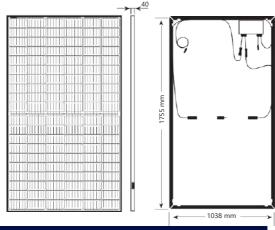
Monocrystalline PERC Module with Half-Cut Cell Technology and Integrated Power Optimizer

SPV355-R60DBMG, SPV360-R60DBMG, SPV370-R60DBMG

Applicable to SPV with P/N	SPV355-R60DBMG-6M4Cxx	SPV360-R60DBMG-6M4C	SPV370-R60DBMG-6M4Cxx	
STC ⁽¹⁾				
Module Power	355	360	370	W
Max. Power Voltage (Vmp)	33.74	33.87	34.17	V
Max. Power Current (Imp)	10.53	10.63	10.83	А
Open Circuit Voltage (Voc)	41.51	41.66	41.96	V
Short Circuit Current (Isc)	10.96	11.07	11.29	А
Maximum System Voltage	1000			Vdc
Maximum Series Fuse Rating	20			Α
Module Efficiency	19.0	19.27	20.31	%
Power Measurement Tolerance		0 ~ +5		W
NOCT ⁽²⁾				
Module Power	266	270	277	W
Max. Power Voltage (Vmp)	30.97	31.09	31.37	V
Max. Power Current (Imp)	8.59	8.67	8.84	А
Open Circuit Voltage (Voc)	38.66	38.80	39.08	V
Short Circuit Current (Isc)	9.01	9.10	9.28	Α

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 aluminum		
Junction Box	IP68, three diodes		
Connector Type	Staubli MC4		
Operating Temperature	-40 to +85	°C	
Packaging Information (units per pallet)	26		





CERTIFICATIONS & WARRANTY		
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		

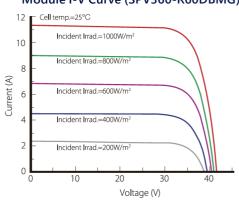
TEMPERATURE CHARACTERISTICS				
	SPV355-R60DBMG / SPV360-E60DBMG	SPV370-E60DBMG		
Temperature Coefficient Power (Pm)	-0.364	-0.328	%/℃	
Temperature Coefficient Voltage (Voc)	-0.281	-0.265	%/°C	
Temperature Coefficient Current (Isc)	0.039	0.0487	%/°C	
Operating Cell Temperature (NOCT)	45	± 2	°C	

Linear Warranty

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



Module I-V Curve (SPV360-R60DBMG)



⁽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) 1}st year: 98%, 84.8% power output over 25 years

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SPV355-R60DBMG-6M4Cxx, SPV360-R60DBMG-6M4Cxx, SPV370-R60DBMG-6M4Cxx

	ES	
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	(POWER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)	
Maximum Output Current	15	Adc
Maximum Output Voltage	60	Vdc
OUTPUT DURING STANDBY (PC INVERTER OFF)	OWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE	E
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	
Safety RoHS	IEC62109-1 (class II safety), UL1741 Yes	
RoHS	Yes VDE-AR-E 2100-712:2013-05	
ROHS Fire Safety	Yes VDE-AR-E 2100-712:2013-05	
RoHS Fire Safety INSTALLATION SPECIFICATION Output Connector	Yes VDE-AR-E 2100-712:2013-05	m
RoHS Fire Safety INSTALLATION SPECIFICATION Output Connector	Yes VDE-AR-E 2100-712:2013-05 IS MC4	m °C
RoHS Fire Safety INSTALLATION SPECIFICATION Output Connector Output Wire Length	Yes VDE-AR-E 2100-712;2013-05 IS MC4 (+) 2.3, (-) 0.10	

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 *Its not allowed to mix SPVxxx-R60DBMG-2M2Cxx and SPVxxx-R60DBMG-6M4Cxx in new installations