Smart Module



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

SPV355-R60DBMG, SPV360-R60DBMG, SPV370-R60DBMG





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

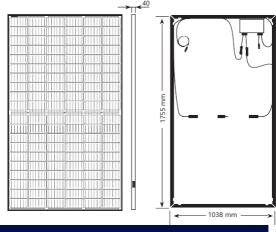
Monocrystalline PERC Module with Half-Cut Cell Technology and Integrated Power Optimizer

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 | | | |
| Maximum Series Fuse Rating | 20 | | | |
| 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 |

| 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 | |



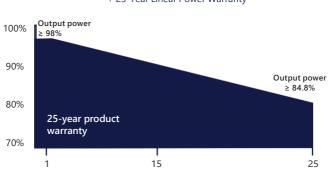


| CERTIFICATIONS & WARRANTY | | |
|-----------------------------|---|--|
| Module Certifications | IEC61215:2016, IEC61730:2016, AU listing CEC, Ammonia, PID, Salt-mist | |
| Product Warranty | Power Optimizer — 25-year warranty, Module — 25-year warranty | |
| Output Warranty of Pmax | 25-year linear module warranty (3) | |
| TEMPERATURE CHARACTERISTICS | | |

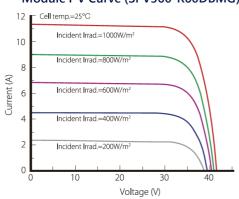
| TEMPERATURE CHARACTERISTICS | | | | |
|--|---------------------------------|----------------|------|--|
| | SPV355-R60DBMG / SPV360-E60DBMG | SPV370-E60DBMG | | |
| Temperature Coefficient Power (Pm) | -0.364 | -0.328 | %/℃ | |
| Temperature Coefficient Voltage (Voc) | -0.281 | -0.265 | %/°C | |
| 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