

Smart Module

The power of rising value



- Up to 25% More Energy
- 100% Visible pertinent data
- Module-level MPPT (Maximum power point technology)
- Mitigate power loss from panel-to-panel mismatch
- Individual module-level monitoring
- Automatic system fault alarm & disconnect
- Installation by traditional technique
- More installation options for various roofs and orientation limitations

HIGH PERFORMANCE MONOCRYSTALLINESMART MODULE

RSM60-6-265MSM-285MSM/4BB

60 CELL MONOCRYSTALLINE MODULE

265-285Wp poweroutputrange

17.5% MAXIMUM EFFICIENCY



About Risen Energy

Risen Energy is a leading, global tier 1 manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential. commercial and utility-scale power generation. The company, founded in 2002, and publicly listed in 2010, compels value generation for its chosen global customers. Tech no-commercial innovation, underpinned by consummate quality and support, encircle Risen Energy's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

KEY SALIENT FEATURES



Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing



Photon Independent field testing - Ranked in the top 2 of 176 international suppliers



Industry leading lowest thermal co-efficient of Power



Industry leading 12 years product warranty



Excellent low irradiance performance



Excellent PID resistance



Positive tight power tolerance of 3%



Dual stage 100% EL Inspection warranting defect-free product





Module Imp binning radically reduces string mismatch losses



Warranted reliability and stringent quality assurances' well beyond certified requirements



Certified to withstand severe environmental conditions



Excellent mechanical load 2400Pa & snow load 5400Pa resistance











PICC





Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo I PRC

Te I: +86-574-59953239 Fax: +86-574-59953599

E-mail: marketing@risenenergy.com Website: www.risenenergy.com



THE POWER OF RISING VALUE



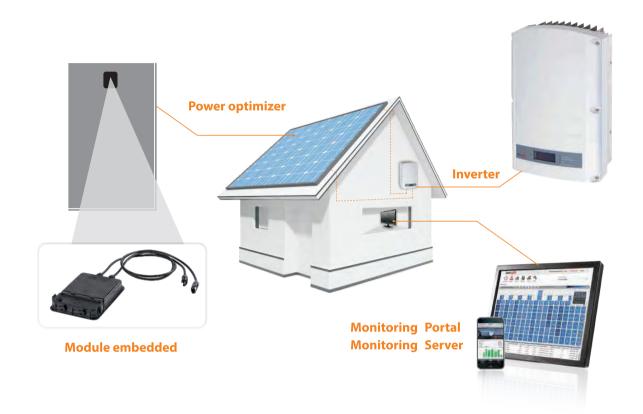






System Architecture

Risen smart system components work together with any inverter to maximizie energy harvest. Risen smart modules can communicate by the electrical system, allowing users to monitor system performance in real time.

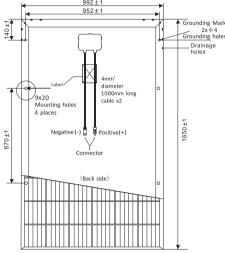


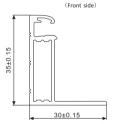
String lengths (computed automatically by SolarEdge Site Designer)						
Module power		265	270	275	280	285
Minimum string size with SolarEdge inverter	single-phase	8	8	8	8	8
	three-phase	16	16	16	16	16
	three-phase(medium voltage)	18	18	18	18	18
Maximum string size with SolarEdge inverter	single-phase	19	19	19	18	18
	three-phase	42	41	40	40	39
	three-phase(medium voltage)	48	47	46	45	44

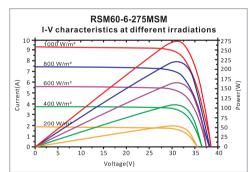
Output Voltages and Currents		
Operating Output Voltage when connected to SolarEdge Inverter	5-60	V(dc)
Maximum Output Current when connected to SolarEdge Inverter	15	A(dc)
$\hbox{Output in Standby mode with Solar Edge inverter or with SMI (when disconnected from inverter or inverter off)}\\$	1	V(dc)

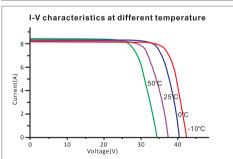
Standard Compliance	
Fire Safety	VDE-AR-E 2100-714:2013-05
PV Junction Box Safety	IEC62109-1(class II safety, TUV-SUD), UL1741(TUV-Rheinland & CSA)
PV Junction Box	En50548(TUV-SUD), UL3730(TUV-Rheinland & CSA)

Dimension of PV Modules Unit: mm











ELECTRICAL DATA(STC) Model Number RSM60-6-265MSM RSM60-6-270MSM RSM60-6-275MSM RSM60-6-280MSM RSM60-6-285MSM Rated Power in Watts-Pmax(Wp) 265 270 275 38.8 38.2 38.4 38.5 38.7 Open Circuit Voltage-Voc(V) Short Circuit Current-Isc(A) 9.15 9.27 9.36 9.47 9.56 30.5 30.8 30.9 31.0 31.2

8.78

16.6

8.91

16.9

9.02

17.2

9.13

17.5

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

8.69

16.3

Maximum Power Voltage-Vmpp(V)

Maximum Power Current-Impp(A)

Module Efficiency (%)

ELECTRICAL DATA(NOCT)					
Model Number	RSM60-6-265MSM	RSM60-6-270MSM	RSM60-6-275MSM	RSM60-6-280MSM	RSM60-6-285MSM
Maximum Power-Pmax (Wp)	193.7	197.4	201.0	204.7	208.3
Open Circuit Voltage-Voc (V)	35.0	35.2	35.5	35.8	36.2
Short Circuit Current-Isc (A)	7.26	7.31	7.35	7.41	7.45
Maximum Power Voltage-Vmpp (V)	28.1	28.4	28.6	28.9	29.1
Maximum Power Current-Impp (A)	6.89	6.95	7.03	7.09	7.16

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA				
Solar cells	Monocrystalline 156×156 mm			
Cell configuration	60 cells (6×10)			
Module dimensions	1650×992×40mm			
Weight	19kg			
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass			
Substrate	White Backsheet			
Frame	Silver Anodized Aluminium Alloy type 6063T5, Silver Color			
J-Box	IP67, 1000VDC, SolarEdge smart J-Box			
Cables	6.0mm² (10AWG), 1000mm length or above			
Connector	IP67 MC4 Compatible			

TEMPERATURE & MAXIMUM RATINGS				
Nominal Operating Cell Temperature (NOCT)	45°C±2°C			
Temperature Coefficient of Voc	-0.32%/°C			
Temperature Coefficient (Vlimit)	0.0%/°C			
Temperature Coefficient of Isc	0.05%/°C			
Temperature Coefficient of Pmax	-0.39%/°C			
Operational Temperature	-40~+85°C			
Maximum System Voltage	1000VDC			
Max Series Fuse Rating	15A			

PACKAGING CONFIGURATION					
	40ft	20ft			
Number of modules per container	728	312			
Number of modules per pallet	26	26			
Number of pallets per container	28	12			
Packaging box dimensions (LxWxH) in mm	1680×1120×1250	1680×1120×1250			
Box gross weight[kg]	560	560			

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.