



ELECTRICAL DATA (STC)

Model Number	RSM40-8-405MB	RSM40-8-410MB	RSM40-8-415MB		
Rated Power in Watts-Pmax(Wp)	405	410	415		
Open Circuit Voltage-Voc(V)	41.60	41.90	42.20		
Short Circuit Current-Isc(A)	12.40	12.47	12.53		
Maximum Power Voltage-Vmpp(V)	34.64	34.89	35.14		
Maximum Power Current-Impp(A)	11.70	11.76	11.82		
Module Efficiency (%) *	21.1	21.3	21.6		

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

* Module Efficiency (%): Round-off to the nearest number

Sorting and binning tolerances: 0~4.99W Measurement tolerance: ±3%

Short Circuit Current tolerance: ±4% Open Circuit Voltage tolerance: ±3% Output power tolerance: ±3%

15 Years Limited Product Warranty; 25 Years Limited Power Warranty

ELECTRICAL DATA (NMOT)

Model Number	RSM40-8-405MB	RSM40-8-410MB	RSM40-8-415MB		
Maximum Power-Pmax (Wp)	306.9	310.7	314.5		
Open Circuit Voltage-Voc (V)	38.69	38.97	39.25		
Short Circuit Current-Isc (A)	10.17	10.22	10.27		
Maximum Power Voltage-Vmpp (V)	32.15	32.38	32.61		
Maximum Power Current-Impp (A)	9.55	9.60	9.65		

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	120 cells (5×12+5×12)
Module dimensions	1754x1096/1108x30/35mm
Weight	21~24kg approx
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Back-sheet (Front side: Black, Back side: White)
Frame	Anodized Aluminium Alloy type 6063T5, Black
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Module Fire Performance	CLASS C (IEC)
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	936	180
Number of modules per pallet	36	36
Number of pallets per container	26	5
Box gross weight[kg]	820	820

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

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THE POWER OF RISING VALUE



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