

12 v Boating , Caravan
and Camping Applications

High-efficiency
Customization
Ultra-light
Flexible
Aesthetics

5
YEAR

Warranty

Electrical Characteristics

STC	SMF160M-4X09U	SMF100S-4X09U	SMF050M-4X09U(III)
Maximum Power (P_{max})	160	100	50
Maximum Power Voltage (V_{mp})	19.1	19.0	18.5
Maximum Power Current (I_{mp})	8.38	5.27	2.71
Open-circuit Voltage (V_{oc})	23.0	23.5	22.6
Short-circuit Current (I_{sc})	8.88	5.67	2.92
Module Efficiency (%)	15.7	15.0	12.6
Operating Temperature (°C)	-40 °C to 85 °C		
Maximum System Voltage	600 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Application Class	Class A		
Power Tolerance	0/+5 W		

STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5.

Mechanical Characteristics

Product	SMF160M-4X09U	SMF100S-4X09U	SMF050M-4X09U(III)
Solar Cell	Mono (6 inches)	Mono (5 inches)	1/3 Mono (6 inches)
No. of Cells	36 (4×09)	36 (4×09)	36 (4×09)
Module Dimensions	1540×660×2 mm	1254×553×2 mm	600×660×2 mm
Weight	2.8 kgs	2.1 kgs	1.3 kgs
Backsheet	White		
J-box	IP 68 rated (each j-box have one bypass diodes)		
Output Cables	Photovoltaic technology cable 4.0 mm ² , (+)150 / (-)450 mm		
Connector	MC4 compatible		



SUNMAN
SOLAR SPECIALIST

eArche applied to caravan market
eArche applied to yacht applications
eArche applied to RV market
eArche applied to train



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CAUTION: Read installation manual before using the product.

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