

# SUNMAN

# eArche®

12 v Boating , Caravan  
and Camping Applications

High-efficiency  
Customization  
Ultra-light  
Flexible  
Aesthetics

5  
YEAR

Warranty

## Electrical Characteristics

STC	SMF175M-4X09U	SMF100S-4X09U	SMF090S-4X08U
Maximum Power ( $P_{max}$ )	175	100	90
Maximum Power Voltage ( $V_{mp}$ )	19.5	19.0	16.7
Maximum Power Current ( $I_{mp}$ )	8.98	5.27	5.38
Open-circuit Voltage ( $V_{oc}$ )	23.9	23.5	21.1
Short-circuit Current ( $I_{sc}$ )	9.50	5.67	5.64
Module Efficiency (%)	17.3	15.0	15.1
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/m<sup>2</sup>, Cell temperature 25°C, AM=1.5.

## Mechanical Characteristics

Product	SMF175M-4X09U	SMF100S-4X09U	SMF090S-4X08U
Solar Cell	Mono (6 inches)	Mono (5 inches)	Mono (5 inches)
No. of Cells	36 (4×09)	36 (4×09)	32 (4×08)
Module Dimensions	1504×673×2 mm	1219×546×2 mm	1092×546×2 mm
Weight	3.0 kgs	1.8 kgs	1.7 kgs
Backsheet	White		
J-box	IP 68 rated (each j-box have one bypass diodes)		
Output Cables	Photovoltaic technology cable 4.0 mm <sup>2</sup> , (+)150 / (-)450 mm		
Connector	MC4 compatible		

www.sunman-energy.com



**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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