



## SMFU for 12V application\_UNC\_EN\_2021A.pdf

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**Electrical**

STC	SMF185M-4X09UW	SMF100S-4X09UW	SMF090S-4X08UW
Maximum Power ( $P_{max}$ )	185	100	90
Maximum Power Voltage ( $V_{mp}$ )	19.9	18.9	16.7
Maximum Power Current ( $I_{mp}$ )	9.30	5.29	5.38
Opencircuit Voltage ( $V_{oc}$ )	24.1	22.5	21.1
Shortcircuit Current ( $I_{sc}$ )	9.78	5.75	5.64
Module Efficiency (%)	17.4	15.0	15.1
Operating Temperature (°C)	-40 °C to 85 °C		
Maximum System Voltage	1000 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	SMF185M-4X09UW	SMF100S-4X09UW	SMF090S-4X08UW
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	1520×700×2 mm	1219×546×2 mm	1092×546×2 mm
Weight	3.5 kgs	1.9 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		