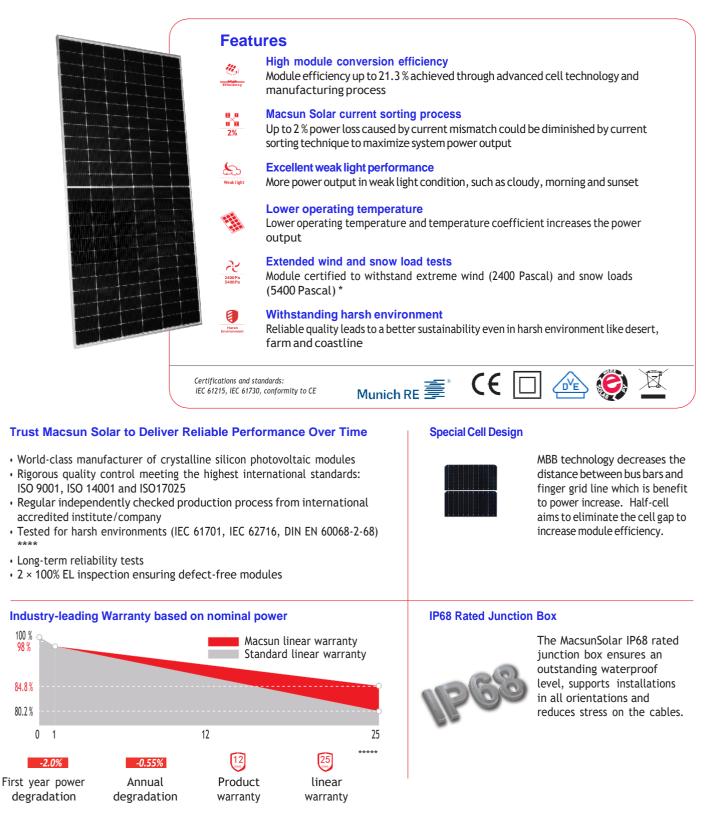


144 HALF-CELL MONOFACIAL MODULE



MSMxxxS - C72/Vmh



** Macsun Solar reserves the right to the final interpretation of the warranty by Munich Re. Please refer to Macsun Solar Standard Module Installation Manual for details. *** Please refer to Macsun Solar Product Near-coast Installation Guide for details.



STC	MSMXXXS-C72/Vmh				
Maximum Power at STC (Pmax)	550W	545W	540W	535W	530W
Optimum Operating Voltage (Vmp)	42.05V	41.87V	41.75V	41.57V	41.39V
Optimum Operating Current (Imp)	13.08A	13.02A	12.94A	12.87A	12.81A
Open Circuit Voltage (Voc)	49.88V	49.69V	49.54V	49.39V	49.24V
Short Circuit Current (Isc)	14.01A	13.96A	13.89A	13.83A	13.76A
Module Efficiency	21.3%	21.1%	20.9%	20.7%	20.5%
Operating Module Temperature		-40 °C to +85 °C			
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	25 A				
Power Tolerance	0/+5 W				

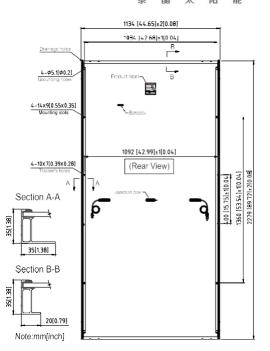
STC: Irradiance 1000 W/m³, module temperature 25 °C, AM=1.5; Tolerance of Pmax is within +/- 3% ; For tracker installation, please turn to Nacsun Solar for mechanical load information.

NMOT		MS	MXXXS-C7	2/Vmh	
Maximum Power at NMOT (Pmax)	415.0W	411.5W	408.0W	404.3W	400.6W
Optimum Operating Voltage (Vmp)	38.9V	38.7V	38.6V	38.4V	38.2V
Optimum Operating Current (Imp)	10.67A	10.63A	10.58A	10.53A	10.47A
Open Circuit Voltage (Voc)	46.9V	46.7V	46.5V	46.4V	46.3V
Short Circuit Current (Isc)	11.22A	11.18A	11.13A	11.08A	11.02A

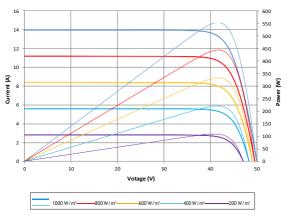
NMOT: Irradiance 800 W/m², ambient temperature 20 $^\circ\text{C},$ AM=1.5, wind speed 1 m/s.

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C



Current-Voltage & Power-Voltage Curve (550S)



Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 35 mm (89.7 × 44.6 × 1.4 inches)
Weight	29.1 kgs (64.2 lbs.)
Front Glass	3.2 mm (0.126 inches)
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² , Portrait: (-) 350 mm and (+) 160 mm in length or customized length
Connectors	MC4 EVO2, Cable 01S

Dealer information

Packing Configuration	
Container	40' HC
Pieces per pallet	31
Pallets per container	20

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Pallets per container	20
Pieces per container	620
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Packaging box dimensions	2310×1130×1245 mm
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Packaging box weight	965 kg

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of *l* in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

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