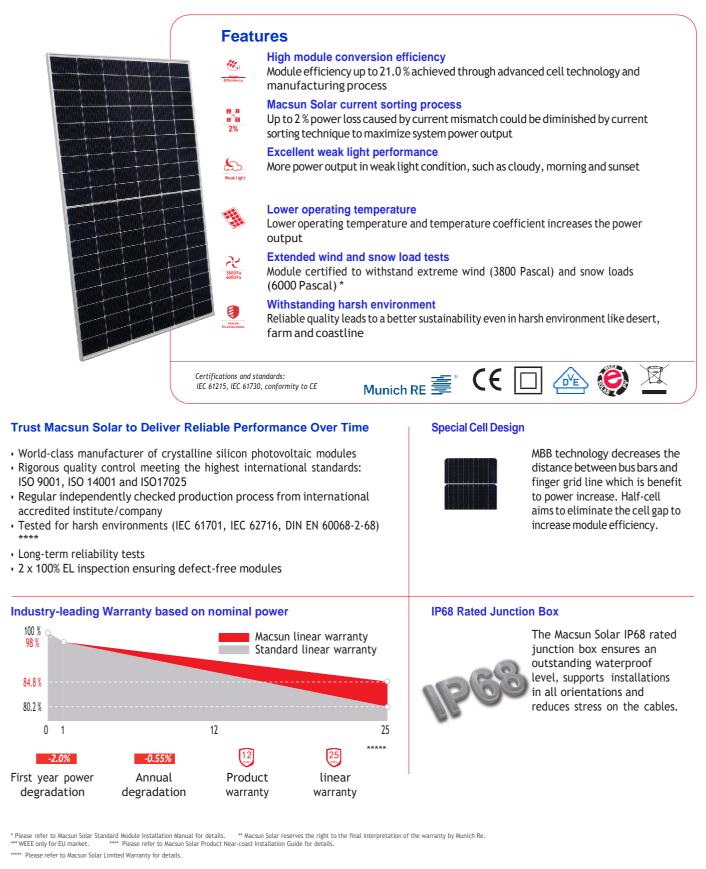


108 HALF-CELL MONOFACIAL MODULE

390-410W

MSMxxxS - C54/Umh





1724 [67.87]±2[0.08]

1134 [44.65]±2[0.08]

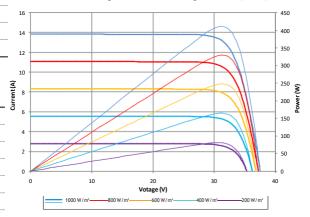
STC		MSN	AXXXS-C5	4/Umh	
Maximum Power at STC (Pmax)	410W	405W	400W	395W	390W
Optimum Operating Voltage (Vmp)	31.59V	31.38V	31.18V	30.98V	30.76V
Optimum Operating Current (Imp)	12.98A	12.91A	12.83A	12.76A	12.69A
Open Circuit Voltage (Voc)	37.45V	37.24V	37.04V	36.84V	36.62V
Short Circuit Current (Isc)	13.88A	13.81A	13.73A	13.66A	13.59A
Module Efficiency	21.0%	20.7%	20.5%	20.2%	19.9%
Operating Module Temperature		-4	0 °C to +85	°C	
Maximum System Voltage		15	00 V DC (IE	C)	
Maximum Series Fuse Rating	25 A				
Power Tolerance	0/+5 W				

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Tolerance of Pmax is within +/- 3%;

NMOT	MSMXXXS-C54/Umh				
Maximum Power at NMOT (Pmax)	309.6W	306.0W	302.3W	298.6W	294.9W
Optimum Operating Voltage (Vmp)	29.2V	29.0V	28.8V	28.6V	28.4V
Optimum Operating Current (Imp)	10.62A	10.56A	10.50A	10.44A	10.38A
Open Circuit Voltage (Voc)	35.2V	35.0V	34.8V	34.6V	34.4V
Short Circuit Current (Isc)	11.16A	11.10A	11.04A	10.98A	10.93A

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

Current-Voltage & Power-Voltage Curve (410S)



Mechanical Characteristics

Temperature Coefficient of Pmax

Temperature Coefficient of Voc

Temperature Coefficient of Isc

Solar Cell	Monocrystalline silicon 182 mm
No. of Cells	108 (6 × 18)
Dimensions	1724 × 1134 × 35 mm (67.9 × 44.6 × 1.4 inches)
Weight	22.1 kgs (48.7 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 , (-) 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	26		
Pieces per container	806		
Packaging box dimensions	1755×1130×1245 mm		
Packaging box weight	735 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.

42 ± 2 °C

-0.36%/°C

-0.304%/°C

0.050%/°C

V				
v		1084 [42.68]±1[0.04]		
A	Drainage holes	В		
V			1	
A	4-05.1(00.2) Grounding holes			_
6	8-14×9[0.55×0.35] Mounting slote			İ
	Section A-A	(Rear View)		
	35(1.38)		[70.0]1±[89.98] 990	1300 [51.18]±1[0.04]
	Section B-B			
W	20[0.79]			
	Note:mmlinch1	<u>با</u> لو 	l	

Note:mm[inch]

Temperature Characteristics Nominal Module Operating Temperature (NMOT)

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