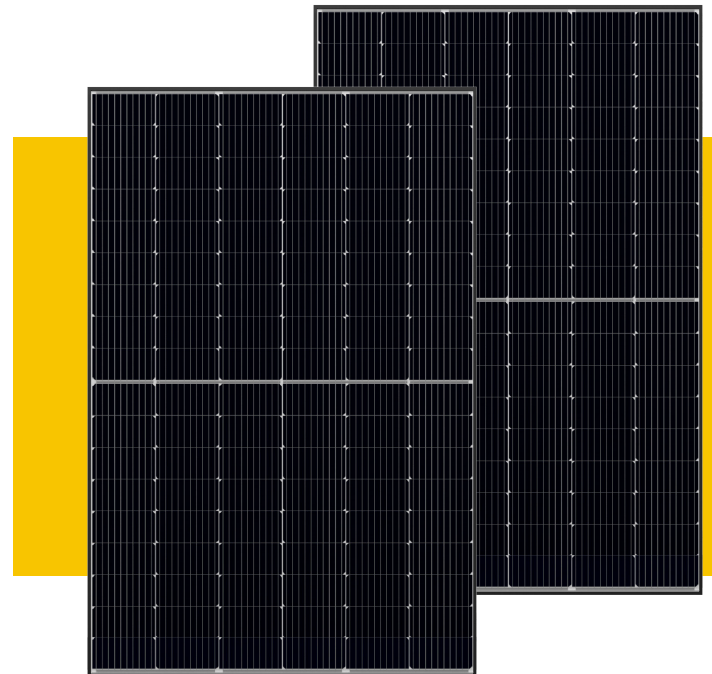


MSMDxxxM10-54
182 M10 cells half cut

390W-410W



KEY FEATURES



Class A fire resistant (possible on request)



Outstanding performance in low-light conditions



Low temperature coefficient (Pmax):-0.36%/°C

+5W

0~+5W positive tolerance- to assure high output



Lower internal current, lower hot spot temperature



Cell crack risk limited in small region, enhance the module reliability

PID FREE

Excellent anti-PID module design, TÜV SÜD certified



Certified to withstand high wind loads (2400pa) and snow loads (5400pa) possible on request



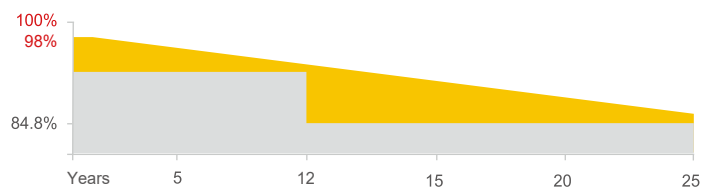
Salt mist and ammonia corrosion resistant

PRODUCT CERTIFICATES



WARRANTY

- Our linear power guarantee
- Standard linear power guarantee



12
years

Enhanced product guarantee on product and workmanship

25
years

Linear power output warranty

MSMDxxxM10-54

ELECTRICAL CHARACTERISTICS

STC	410	405	400	395	390
Maximum Power at STC (Pmax)	410W	405W	400W	395W	390W
Optimum Operating Voltage (Vmp)	31.6V	31.4V	31.2V	31V	30.8V
Optimum Operating Current (Imp)	12.98A	12.91A	12.83A	12.76A	12.69A
Open Circuit Voltage (Voc)	37.5V	37.3V	37.1V	36.9V	36.7V
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	-40°C to +85°C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	25A				
Power Tolerance	0/+5W				

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%

NMOT	410	405	400	395	390
Maximum Power at NMOT (Pmax)	309W	306.0W	302W	298W	295W
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 °C, AM=1.5, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

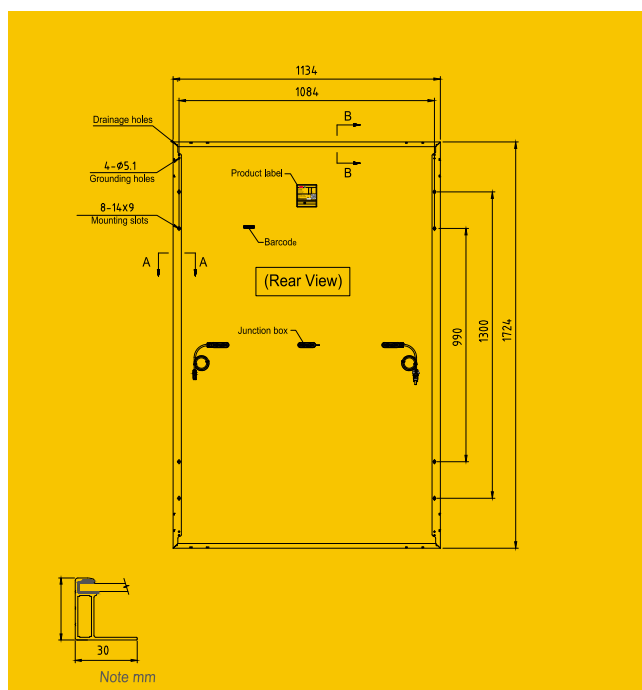
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.34 %/°C
Temperature Coefficient of Voc	-0.25 %/°C
Temperature Coefficient of Isc	0.040%/°C

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon 182 mm
No. of Cells	108 (6 × 18)
Dimensions	1724 x 1134 x 30 mm
Weight	21.0kg
Front Glass	High Transmittance AR Coated Tempered Glass/3.2mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Output Cables	4.0 mm ² , cable length 350mm or customized length

PACKING CONFIGURATION

Container	20' GP	40' HC
Pieces per pallet	36+4*6	36
Pallets per container	6	26
Pieces per container	360	936



Current-Voltage & Power-Voltage Curve (410)

