

MSMDxxxM3-72

390W-410W

KEY FEATURES



Class A fire resistant (industry standard class C)



Outstanding performance in low-light conditions



Low temperature coefficient (Pmax): -0.35 % / °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

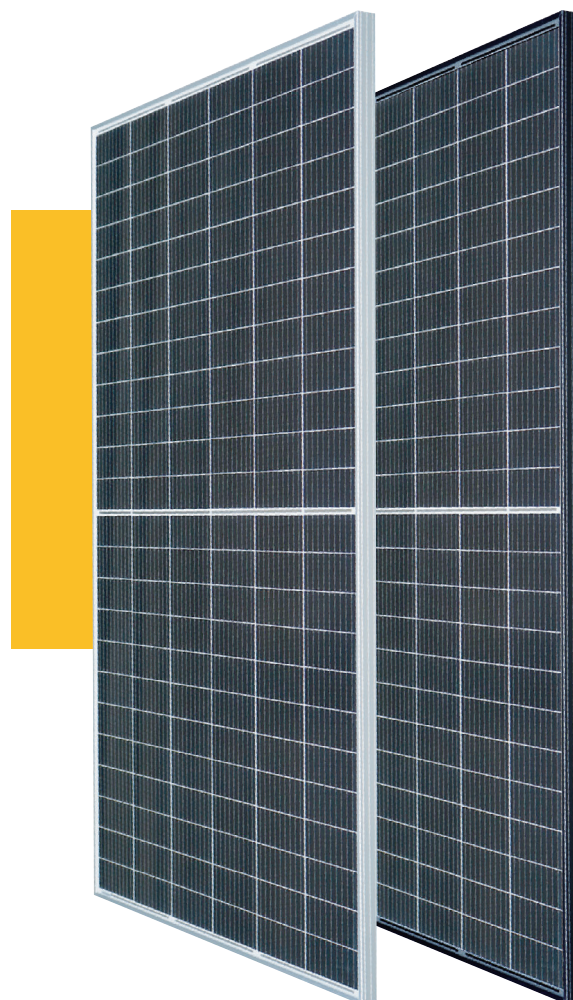


Certified to withstand high wind loads (3600pa) and snow loads (8000pa)



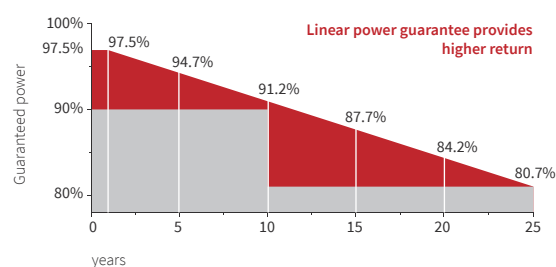
Salt mist and ammonia corrosion resistant

PRODUCT CERTIFICATES



WARRANTY

- Our linear power guarantee
- Standard linear power guarantee



15 years

Enhanced product guarantee on product and workmanship

25 years

Linear power output warranty

MSMDxxxM3-72

ELECTRICAL CHARACTERISTICS

STC	390	395	400	405	410
Maximum Power at STC (Pmax)	390 W	395 W	400 W	405 W	410 W
Optimum Operating Voltage (Vmp)	40.3 V	40.5 V	40.7 V	40.9 V	41.1 V
Optimum Operating Current (Imp)	9.68 A	9.76 A	9.83 A	9.91 A	9.98 A
Open Circuit Voltage (Voc)	48.1 V	48.3 V	48.5 V	48.7 V	48.9 V
Short Circuit Current (Isc)	10.20 A	10.27 A	10.34 A	10.42 A	10.49 A
Module Efficiency	19.2%	19.4%	19.7%	30.0%	20.2%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000/1500 V DC (IEC)				
Maximum Series Fuse Rating	20 A				
Power Tolerance	0/+5 W				

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

NMOT	390	395	400	405	410
Maximum Power at NMOT (Pmax)	293.2 W	297.0 W	300.6 W	304.6 W	308.2 W
Optimum Operating Voltage (Vmp)	37.4 V	37.6 V	37.8 V	38.1 V	38.2 V
Optimum Operating Current (Imp)	7.84 A	7.89 A	7.95 A	8.00 A	8.06 A
Open Circuit Voltage (Voc)	45.1 V	45.3 V	45.4 V	45.7 V	45.9 V
Short Circuit Current (Isc)	8.24 A	8.30 A	8.34 A	8.41 A	8.46 A

NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

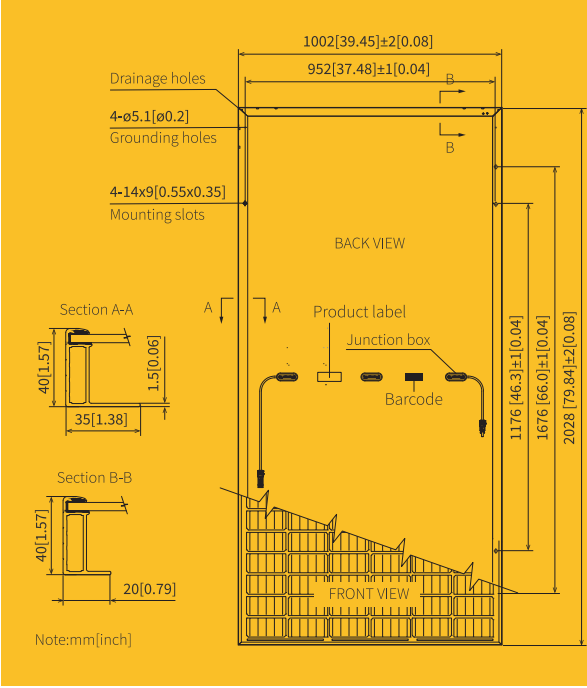
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.35 %/°C
Temperature Coefficient of Voc	-0.304 %/°C
Temperature Coefficient of Isc	0.050 %/°C

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline silicon 158.75 mm
No. of Cells	144 (6 × 24)
Dimensions	2028 × 1002 × 40 mm
Weight	27.0 kgs
Front Glass	2.0 mm semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated
Output Cables	4.0 mm², symmetrical lengths (-) 1400 mm and (+) 1400 mm
Connectors	MC4 compatible
Refer. Bifaciality Factor	(70 ± 5)%

PACKING CONFIGURATION

Container	20' GP	40' HC
Pieces per pallet	30	30
Pallets per container	10	22
Pieces per container	300	660



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

