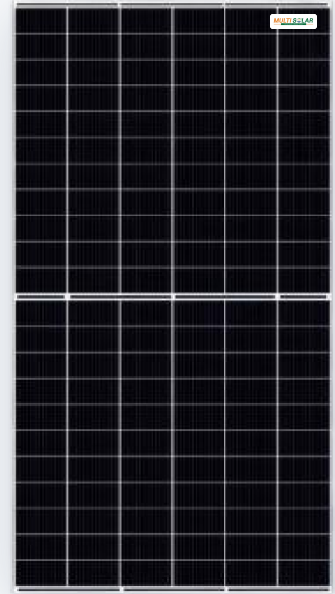


TOPCon G12R MODULE

600-630 Wp

BIFACIAL- TOPCon G12R

132 SOLAR CELLS (DUAL GLASS)



630Wp
RATED POWER



23.33%
EFFICIENCY



16BB
MULTI BUSBAR



30 Years
PERFORMANCE
WARRANTY

FEATURES



High module conversion efficiency upto 23.33%. Highest commercial gains, lower LCOE.



Increase shade tolerance. Highest reliability & enhanced crack tolerant MBB module.



Highly efficient Topcon cells. Module utilizing Half cut cell for optimum performance.



Split junction box improve heat dissipation. Best in class thermal coefficients.

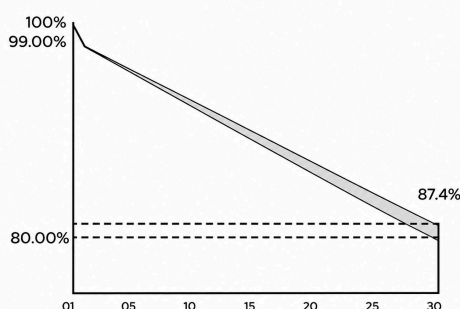


1500 VDC system voltage for lower BoS cost



PID Resistant with long term reliability

PERFORMANCE WARRANTY



30 Years

PERFORMANCE WARRANTY

Performance warranty. Module performance modelled from an initial 99.00% down to 87.4%, remaining above the 80.00% threshold across 30 years of operation.

ELECTRICAL PARAMETERS – STC

Model Nos.	MSG12R132TC630	MSG12R132TC625	MSG12R132TC620	MSG12R132TC615	MSG12R132TC610	MSG12R132TC605	MSG12R132TC600
Rated Power (Pmax)	630 (±3%)	625 (±3%)	620 (±3%)	615 (±3%)	610 (±3%)	605 (±3%)	600 (±3%)
Rated Voltage (Vmp)	40.26	40.15	40.02	39.91	39.8	39.69	39.58
Rated Current (Imp)	15.65	15.55	15.5	15.4	15.33	15.25	15.16
Open Circuit Voltage (Voc)	47.91	47.77	47.63	47.5	47.36	47.22	47.08
Short Circuit Current (Isc)	16.12	16.1	16.05	16	15.99	15.95	15.9
Module Efficiency %	23.33	23.11	22.96	22.75	22.59	22.41	22.21

STC irradiance 1000 W/m², Cell Temperature 25°C, Air mass 1.5, Nominal Operating Cell Temperature (NOCT) - 800 W/m² irradiance and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m² as per IEC 60904-1. Measuring Uncertainty ± 3%

ELECTRICAL PARAMETERS – BNPI (WITH BIFACIAL GAIN)*

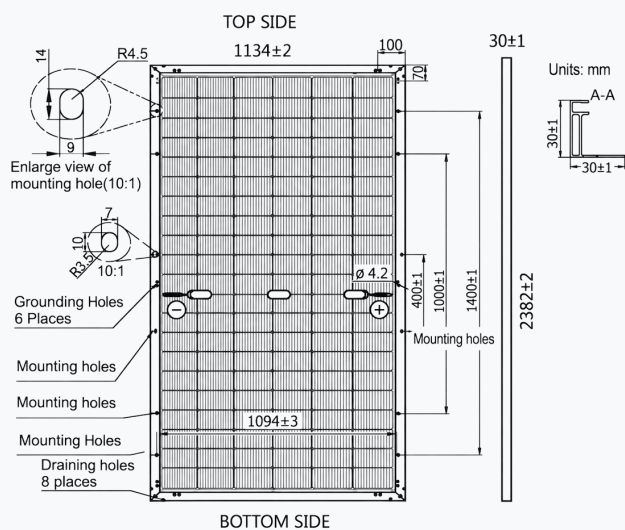
Model Nos.	MSG12R132TC630	MSG12R132TC625	MSG12R132TC620	MSG12R132TC615	MSG12R132TC610	MSG12R132TC605	MSG12R132TC600
Rated Power (Pmax)	693	687.5	682	676.5	671	665.5	660
Rated Voltage (Vmp)	40.26	40.15	40.02	39.91	39.8	39.69	39.58
Rated Current (Imp)	17.22	17.11	17.05	16.94	16.86	16.78	16.68
Open Circuit Voltage (Voc)	47.91	47.77	47.63	47.5	47.36	47.22	47.08
Short Circuit Current (Isc)	17.73	17.71	17.66	17.6	17.59	17.55	17.49

*The bifacial gains are subject to the ground reflectance & Bifaciality factor

MECHANICAL SPECIFICATION

Solar Cell	Halfcut TOPCon, 16BB (182.3mm*105.0mm)
Cell matrix	132 cell (12*11)
Encapsulant	EPE Based Encapsulant, UV and Weather Stable
Frame	Silver Anodized Aluminum
Glass	2.0mm AR coated tempered glass
J-box	IP 68 split JB
Cable	4 Sqmm, 300mm solar cable
Connector	MC4 compatible connector
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Dimensions	2382mm*1134mm*30mm
Weight	33.4 Kg

DIMENSIONS (MM)

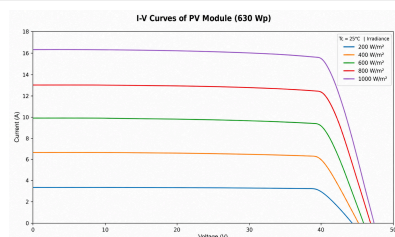


TEMPERATURE COEFFICIENTS & OPERATING CONDITIONS

Temperature range	-40°C to +85°C
Maximum System Voltage	1500VDC
NOCT	45±2° C
Maximum Series Fuse Rating	30A
Maximum Load (snow/wind)	5400Pa/2400Pa
Temperature Coefficient (Voc)	- 0.28 %/°C
Temperature Coefficient (Isc)	- 0.048 %/°C
Temperature Coefficient (Pmax)	- 0.35 %/°C

WARRANTY

Product Warranty	12 years warranty for manufacturing defects
Performance Warranty	Performance warranty for 30 years



CERTIFICATION



Note

- The electrical data & specifications given here are for reference only and are subject to change without notice
- Please confirm your exact requirement with sales team before placing the order

Multi Infrastructure & Engineering Private Limited

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