

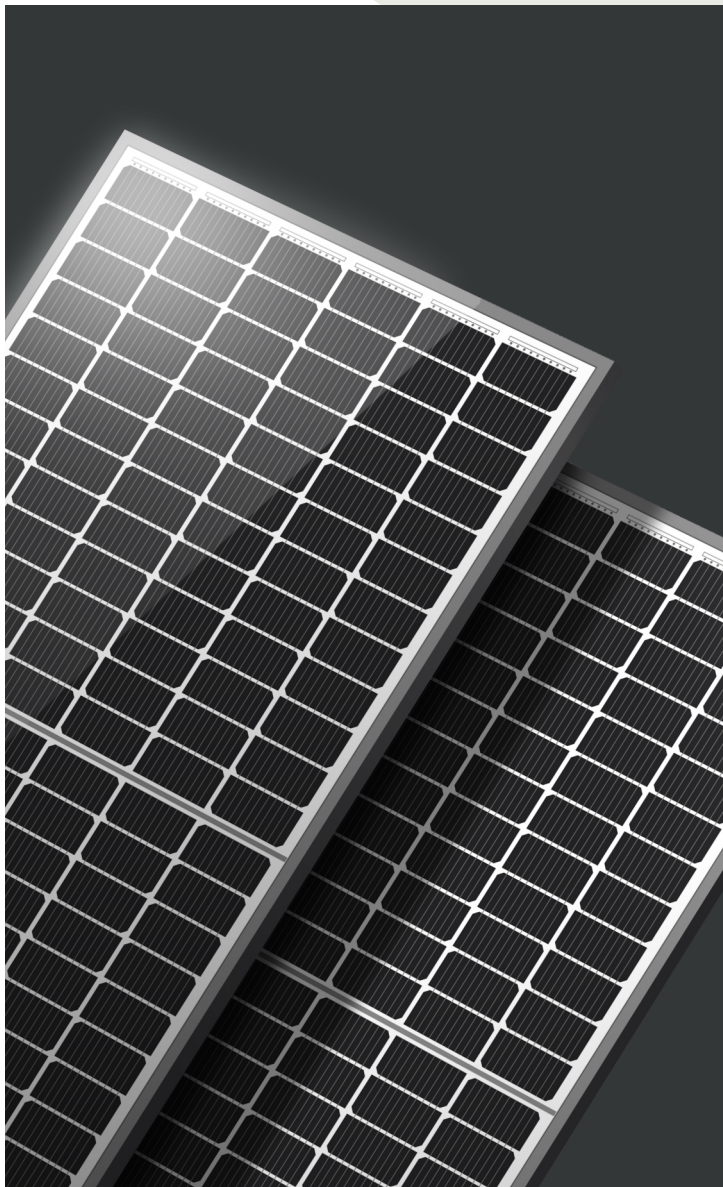
Reap the benefits of increased power generation in less space with



MAGNUS

S E R I E S

BI-FACIAL



AR Coated Tempered Glass Anti-Reflective Module Surface



Excellent Module Efficiency



Pre and Post EL Checking to ensure defect free module



Ip68 Junction Box For High Waterproof level



LCOE Is Cut Back by using M10 size solar cell with adding more power output than lower size cell module



Field Reliability is improved due to multiple contact points on the cell which lowers the cell stress during module fabrication



Cylindrical tabbing wire is used to reduce the shadow on cell active area



Ensure safety parameters through Safety test



Excellent module conversion efficiency of up to 21.3%

APPLICATIONS



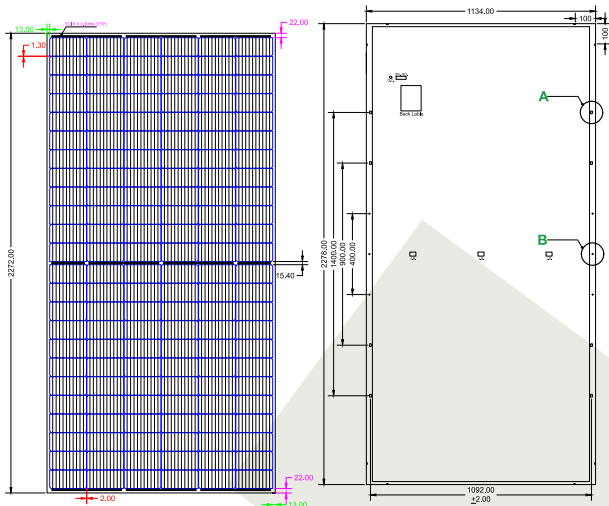
On-grid large scale utility systems



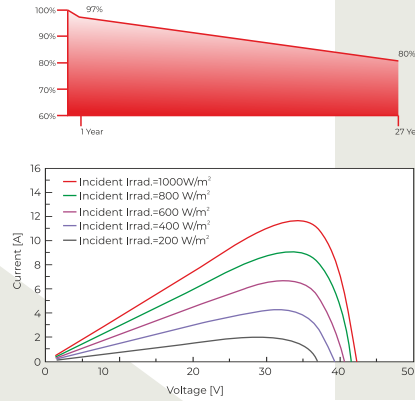
On-grid rooftop industrial and commercial systems



Rooftop residential systems



Performance Warranty



MODULE DATASHEET 144 CUT- CELL MONO(MAGNUS PRO SERIES)

ELECTRICAL DATA AS PER STC

MODEL NAME	SS72CB525M	SS72CB530M	SS72CB535M	SS72CB540M	SS72CB545M	SS72CB550M
MAXIMUM VOLTAGE Vmp (V)	43.32	43.5	43.6	43.8	43.9	44
MAXIMUM CURRENT Imp (A)	12.12	12.19	12.28	12.35	12.42	12.51
OPEN CIRCUIT VOLTAGE Voc (V)	49.23	49.3	49.37	49.44	49.51	49.6
SHORT CIRCUIT CURRENT Isc(A)	13.37	13.38	13.41	13.44	13.49	13.56
MODULE EFFICIENCY (%)	20.4	20.53	20.73	20.92	21.1	21.3

NOTE:PARAMETERS UNDER STANDARD TEST CONDITIONS(STC) , PARAMETERS HAVE A TOLERANCE OF +&-2%.

ELECTRICAL DATA NOCT

Power (W)	387	393	397	399	402	407
V@P max (V)	38.2	38.3	38.4	38.5	38.6	38.7
I@P max (A)	10.14	10.29	10.34	10.37	10.43	10.52
Voc (V)	45.7	45.9	46	46.1	46.2	46.3
Isc (A)	10.83	10.89	10.96	11.3	11.9	11.15

THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.05%
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.27%
Temperature coefficient of Power (Pm), γ (%/°C)	-0.35%
NOCT (°C)	45 + & - 2
Operating temperature range (°C)	-40 to 85

MECHANICAL CHARACTERISTICS

Solar cells	182mmX93mm, Bifacial monocrystalline Silicon(PERC), M10
Encapsulation	Ultra - clear PID free EVA (Ethylene-Vinyl-Acetate),UV and Weather stable
Backside	UV protected reflective, Transparent backsheets
Frame	Silver Anodized Aluminium Alloy
Front Glass	3.2 mm, High Transmission, AR Coated Tempered Glass
Dimensions	(L) 2278 mm x (W) 1133 mm x (H) 35 mm
Weight	27.5KG
Junction Box	IP 68 certified, 3 diodes, Split junction box
Series Fuse Rating	25A
Cable	Solar cable 400 mm length, 4 mm ²
Connectors	MC4 Type
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type 1)
Mechanical load	Snow load 5400 Pa, Wind load 2400 Pa
Maximum System Voltage	1500V

EQUIVALENT BIFACIAL OUTPUT

5% Gain	551	556	561	567	572	577
10% Gain	577	583	588	594	599	605
15% Gain	603	609	615	621	626	632
20% Gain	630	636	642	648	654	660
25% Gain	656	662	668	675	681	687
30% Gain	682	689	695	702	708	715