N-Type

MORE ENERGY

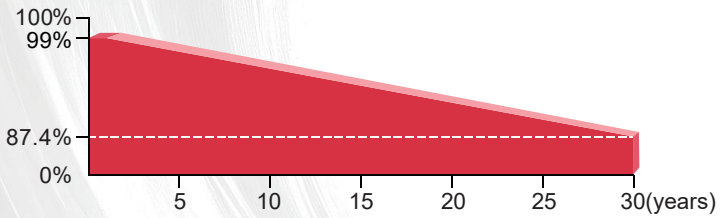
More Energy, More Power

700W MBB

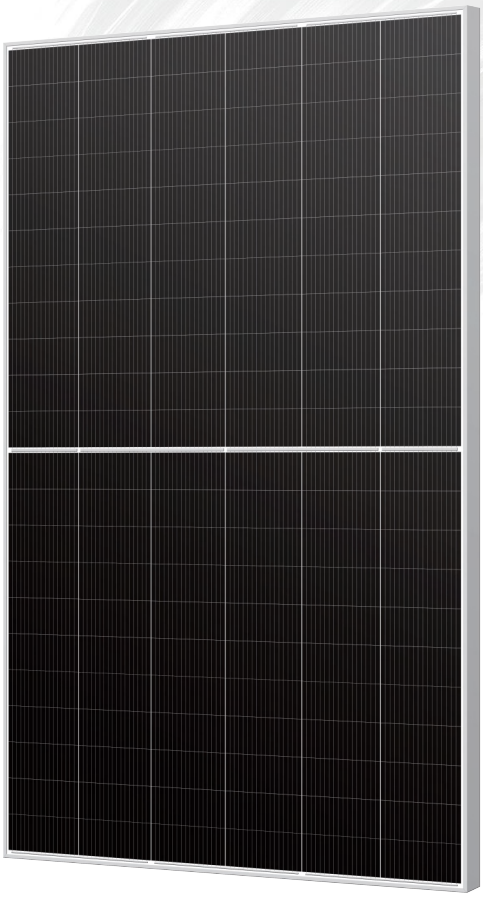
Bifacial Double Glass

Mono Half-cell Module

G12-132GANT 680~700W



More Energy's linear performance warranty



12 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

- ▲ Higher output power
- ▲ Module efficiency up to 22.53%
- ▲ Lower temperature coefficient
- ▲ Up to 30% additional power gain from back side depending on albedo

- ▲ ISO9001:2015 Quality Management system
- ▲ ISO14001:2015 Environmental Management System
- ▲ ISO45001:2018 Occupational Health and Safety Management System

- ▲ Lower LCOE (Levelized Cost Of Energy)
- ▲ High Power output lead to lower BOS cost

PID FREE

Excellent Potential Induced Degradation Resistance

- ▲ Salt Mist Corrosion Protect
- ▲ Ammonia Resistance

Excellent Wind Load 2400Pa&Snow Load 5400Pa Under Certain Installation Method

More Energy GmbH
Add: Fürtherstr. 38, 90429 Nürnberg, Germany

ME680~700G12-132GANT

MORE ENERGY
More Energy, More Power

Electrical Characteristics(STC*)

Power Output(Wp)	680	685	690	695	700
Max Power Tolerance(W)	0-5	0-5	0-5	0-5	0-5
Module Efficiency(%)	21.89	22.05	22.21	22.37	22.53
Voltage Mpp-Vmpp(V)	38.55	38.74	38.94	39.13	39.33
Current Mpp-Impp(A)	17.64	17.68	17.72	17.76	17.80
Voltage Open Circuit-Voc(V)	46.50	46.69	46.88	47.07	47.26
Short Circuit Current-Isc(A)	18.69	18.74	18.79	18.84	18.89

*STC:Irradiance 1000 W/m²,Environment Temperature 25℃,Air Mass AM1.5

Electrical Characteristics(NMOT*)

Power Output(Wp)	513	517	521	525	529
Voltage Mpp-Vmpp(V)	36.15	36.36	36.56	36.74	36.94
Current Mpp-Impp(A)	14.19	14.22	14.25	14.29	14.32
Voltage Open Circuit-Voc(V)	44.37	44.56	44.75	44.94	45.13
Short Circuit Current-Isc(A)	15.05	15.09	15.13	15.17	15.21

*NMOT:Irradiance 800 W/m²,Environment Temperature 20℃,Air Mass AM1.5

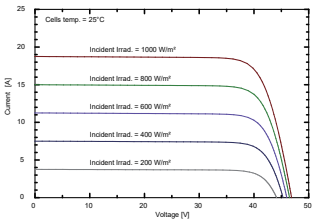
Electrical Characteristics(NMOT*)

Power Gain(%)	Power Output(Wp)	Voltage Mpp-Vmpp(V)	Current Mpp-Impp(A)	Voltage Open Circuit-Voc(V)	Short Circuit Current-Isc(A)
10	759	38.94	19.49	46.88	20.67
15	794	38.94	20.38	46.88	21.61
20	828	38.94	21.26	46.88	22.55
25	863	38.94	22.15	46.88	23.49
30	897	38.94	23.04	46.88	24.43

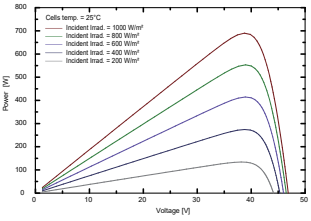
Mechanical Data

Dimension Of Module	2384*1303*35mm
Weight(kg)	38
Front/Back Glass	2.0mm heat strengthened glass
Cables	4mm²/300mm or Customized Length
Junction Box	IP68,3 Bypass-Diode
Connector	MC4 compatible

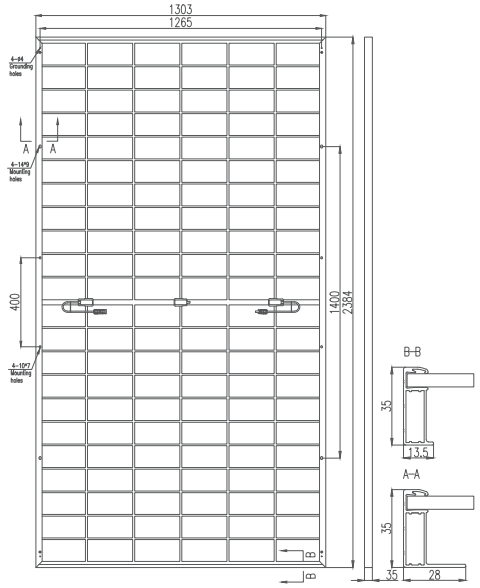
I-V Curves(690W)



P-V Curves(690W)



Module Back View



Mechanical Data

Loading Capacity	558 pcs/40'HQ

Working Conditions

Max System Voltage(VDC)	1500V
Max Series Fuse Rating	30A
Maximum Load Capacity	Snow 5400Pa/Wind 2400Pa
Operating Temperature	-40℃~+85℃
Safety Class	Ⅱ
Power Bifaciality	75±5%

Working Conditions

Temperature Coefficients of Isc(%/℃)	0.046
Temperature Coefficients of Voc(%/℃)	-0.26
Temperature Coefficients of Pmpp(%/℃)	-0.310
NMOT	42±2℃

Specifications included in this datasheet are subject to change without notice.
Version No.: ME_2022_01