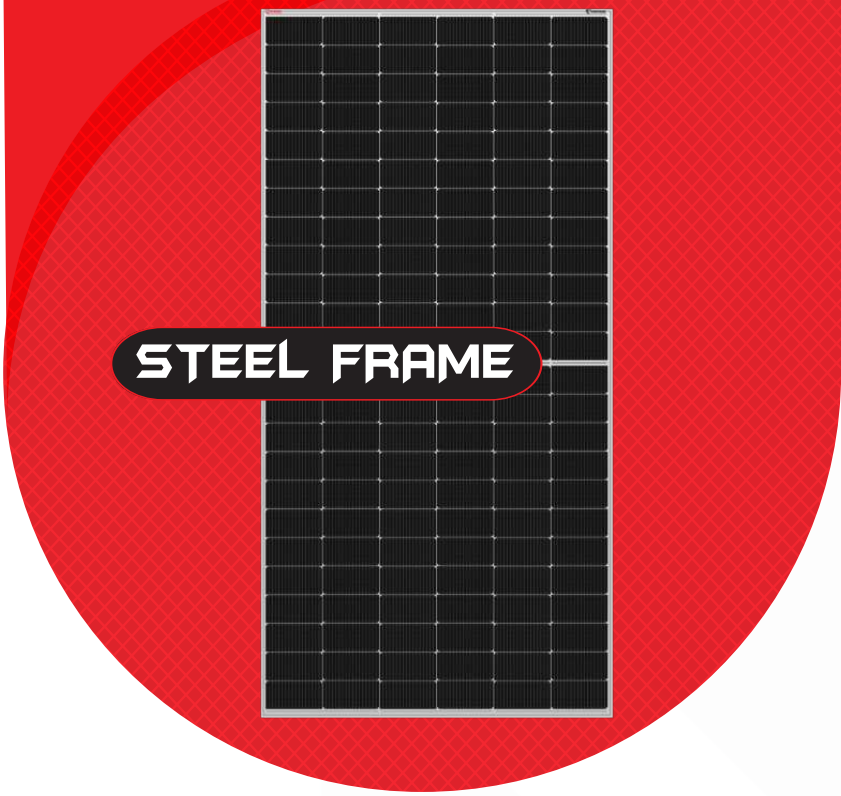
INVEREX SOLAR ENERGY



MUSTANG

N-Topcon Bifacial High Efficiency PV Module

585W



PRODUCT FEATURES

High Power Output
N-type MBB half cut technology, improve energy density, bring higher power output.
High Bifacial Factor, up to 25% extra power generation.

High Durability
Passed TUV Salt & Ammonia corrosion test, and 2400Pa wind load, 5400Pa snow load test, higher reliability.

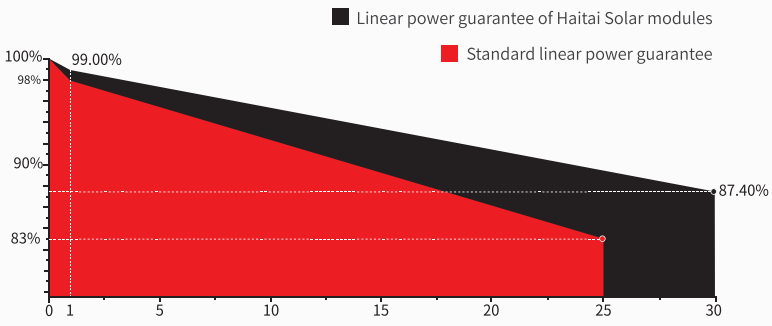
Better Low Light Performance
Higher power generation compare with standard module in cloudy, foggy and low light condition.

Low Power Degradation
First year power degradation <1.0%, year 2-30 power degradation <0.40% each year.

Low Temperature Coefficient
Passivated contact cell technology for higher power generation in operating.

Better Anti-LID
N-type cells with boron-oxide-free composite LID to increase module power generation.

LINEAR PERFORMANCE WARRANTY



12 YEARS product warranty

30 YEARS linear power warranty

0.40% Linear attenuation of 0.40% per year within30years



CERTIFICATES

·IEC 61215，IEC 61730
·ISO 9001：2015 Quality Management System
·ISO 14001：2015 Environment Management System
·ISO 45001：2018 Occupational health and safety management systems
·IEC62941:2019 Photovoltaic Module Manufacturer Quality Management System

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INVEREX SOLAR ENERGY

MUSTANG 585W

Electrical Data (STC)

Maximum Power (Pmax/W)	580	585	590	595	600
Open Circuit Voltage (Voc/V)	52.19	52.34	52.49	52.64	52.79
Short Circuit Current (Isc/A)	13.89	13.97	14.05	14.13	14.21
Voltage at Maximum Power (Vmp/V)	43.91	44.06	44.21	44.36	44.51
Current at Maximum Power (Imp/A)	13.21	13.28	13.35	13.42	13.49
Module Efficiency (%)	22.45	22.65	22.84	23.03	23.23
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V				

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C , AM1.5

Electrical Data (NMOT)

Maximum Power (Pmax/W)	437	441	445	449	453
Open Circuit Voltage (Voc/V)	49.59	49.72	49.81	49.90	49.99
Short Circuit Current (Isc/A)	11.37	11.45	11.53	11.61	11.69
Voltage at Maximum Power (Vmp/V)	40.84	40.92	41.01	41.10	41.19
Current at Maximum Power (Imp/A)	10.71	10.78	10.86	10.93	11.00

NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C , AM1.5, Wind Speed 1m/s.

Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	609	614	620	625	630
	Module Efficiency (%)	23.57	23.78	23.98	24.18	24.39
15%	Maximum Power (Pmax/W)	667	673	679	684	690
	Module Efficiency (%)	25.82	26.04	26.27	26.49	26.71
25%	Maximum Power (Pmax/W)	725	731	738	744	750
	Module Efficiency (%)	28.07	28.31	28.55	28.79	29.03

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×30mm
Weight	33.8kg
Front Glass	2.0mm high transmittance, reinforced glass
Rear Glass	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Steel
Junction Box	Protection class IP68
Cable	4.0 mm² positive pole: 200 mm negative pole: 250 mm wire length can be customized

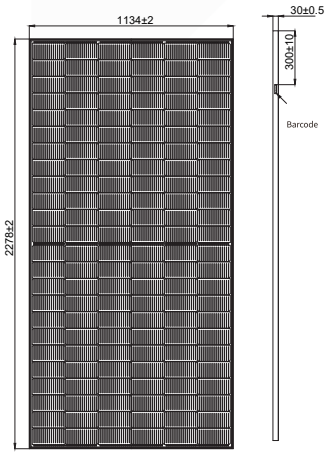
Temperature Coefficients

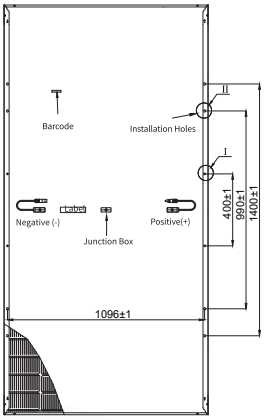
Temperature Coefficient (Pm)	-0.290%/°C
Temperature Coefficient (Voc)	-0.250%/°C
Temperature Coefficient (Isc)	0.045%/°C
NMOT (Nominal Moudule Operating Temperature)	41±3°C

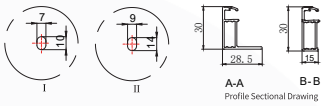
Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	740 pcs	37 pcs +37 pcs

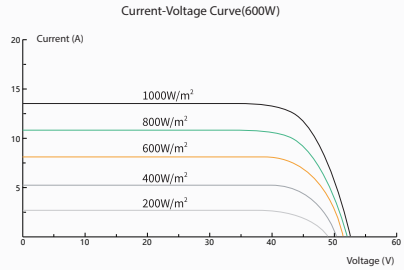
Module Dimensions (mm)

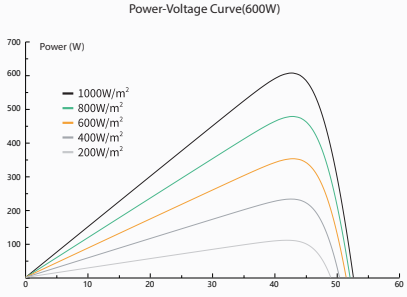






I-V Curve





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