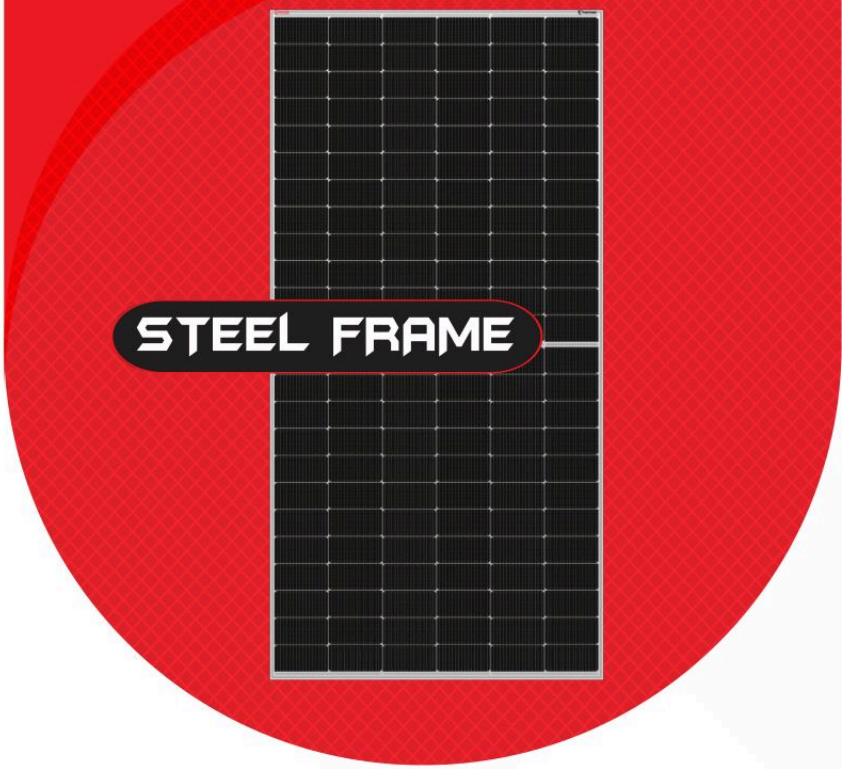
INVEREX
SOLAR ENERGY



MUSTANG

N-Topcon Bifacial High Efficiency PV Module

620W

New Edition TIER-1

High Power Output
N-type 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.

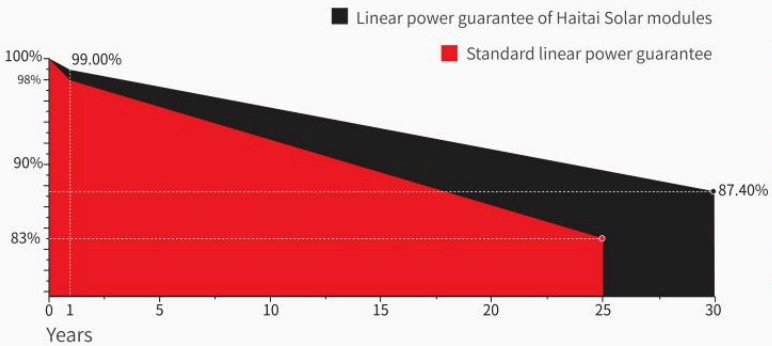
Better Low Light Performance
Higher power generation compare with standard module in cloudy, foggy and low light condition.

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 conditions.

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

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

UAN: +92-21-111-209-988 www.aptinverex.com info@aptinverex.com

INVEREX SOLAR ENERGY

MUSTANG 620W

New Edition TIER-1

N-Topcon Bifacial High Efficiency PV Module

Electrical Data (STC)

Maximum Power (Pmax/W)	615	620	625	630	635	640
Open Circuit Voltage (Voc/V)	48.22	48.37	48.52	48.67	48.82	48.97
Short Circuit Current (Isc/A)	15.94	16.02	16.10	16.18	16.26	16.34
Voltage at Maximum Power (Vmp/V)	40.77	40.92	41.07	41.22	41.37	41.52
Current at Maximum Power (Imp/A)	15.09	15.16	15.22	15.29	15.35	15.42
Module Efficiency (%)	22.77	22.95	23.14	23.32	23.51	23.69
Operating Temperature	-40° C~+85° C					
Maximum System Voltage	1000/1500V					

STC (Standard Testing Conditions): Irradiance 1000W/m^2, Cell Temperature 25°C , AM1.5

Electrical Data (NMOT)

Maximum Power (Pmax/W)	464	468	472	476	480	484
Open Circuit Voltage (Voc/V)	45.82	45.97	46.12	46.27	46.42	46.57
Short Circuit Current (Isc/A)	13.07	13.14	13.2	13.27	13.34	13.41
Voltage at Maximum Power (Vmp/V)	37.73	37.88	38.03	38.18	38.33	38.48
Current at Maximum Power (Imp/A)	12.3	12.36	12.42	12.47	12.53	12.58

NMOT (Nominal Moudule Operating Temperature): Irradiance 800W/m^2, Ambient Temperature 20°C , AM1.5, Wind Speed 1m/s.

Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	646	651	656	662	667	672
	Module Efficiency (%)	23.91	24.10	24.29	24.49	24.68	24.88
15%	Maximum Power (Pmax/W)	707	713	719	725	730	736
	Module Efficiency (%)	26.18	26.40	26.61	26.82	27.03	27.25
25%	Maximum Power (Pmax/W)	769	775	781	788	794	800
	Module Efficiency (%)	28.46	28.69	28.92	29.15	29.39	29.62

Mechanical Data

Cell Type	182×105mm Mono
Cell Orientation	132(6×22)
Module Dimensions	2382×1134×30mm
Weight	35.4kg
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 mm^2 positive pole: 200 mm negative pole: 250 mm wire length can be customized

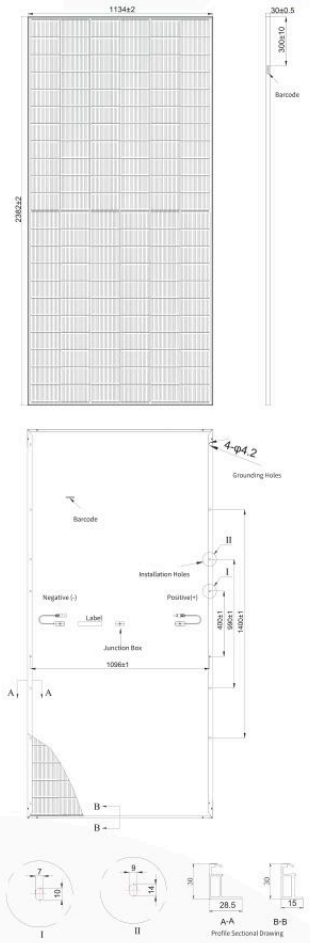
Temperature Coefficients

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

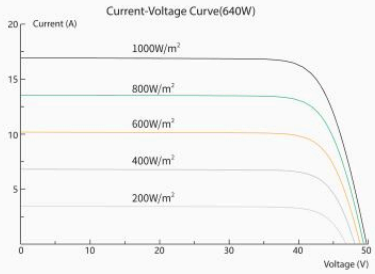
Packaging

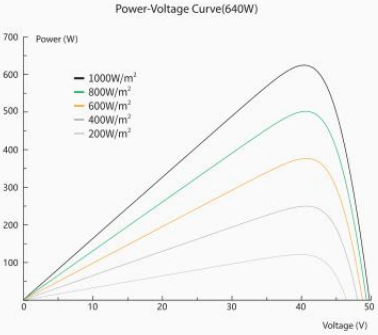
Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	740 pcs	37 pcs +37 pcs

Module Dimensions (mm)



I-V Curve





UAN: +92-21-111-209-988 www.aptinverex.com info@aptinverex.com