



STxxxG12NHB-132

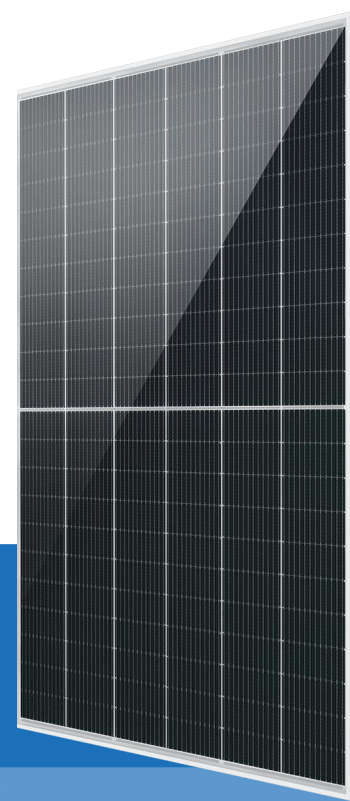
0~+5W

700~720W

TOPCon Mono-crystalline Bifacial Module

23.2%

High Module Conversion Efficiency



Key Features



Outstanding performance in weak-light conditions



Lower operating temperature



Half-cell and MBB design



Extended wind and snow load tests

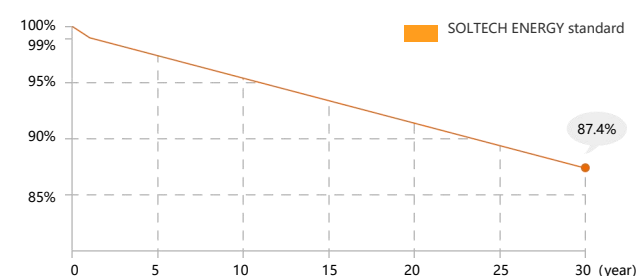


Withstanding harsh environment



Use scenario customization

Quality Certification



Materials and workmanship warranty



Linear performance warranty

First year power degradation < 1%
Annual degradation < 0.4%

Product Guarantee

ISO 9001:2015 Quality management systems
ISO 14001:2015 Environment management systems
ISO 45001:2018 Occupational health and safety management systems
IEC 61215/IEC 61730/IEC 61701/IEC 62716
TUV/CE/CQC/MCS/BIS/SASO/SGS/INMETRO



Electrical Characteristics

Module Type		ST700G12NHB-132		ST705G12NHB-132		ST710G12NHB-132		ST715G12NHB-132		ST720G12NHB-132	
Working Conditions		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power at STC/NMOT(Pmax)	W	700	523.6	705	527.3	710	531.1	715	534.8	720	534.8
Optimum Operating Voltage(Vmp)	V	40.61	37.77	40.76	37.91	40.91	38.05	41.06	38.19	41.25	38.36
Optimum Operating Current (Imp)	A	17.24	13.86	17.30	13.91	17.36	13.96	17.41	14.01	17.46	14.04
Open Circuit Voltage(Voc)±3%	V	48.53	45.13	48.68	45.27	48.83	45.41	48.98	45.55	49.17	45.73
Short Circuit Current(Isc)±3%	A	18.09	14.69	18.13	14.74	18.21	14.8	18.27	14.86	18.30	14.91
Module Efficiency	%	22.5		22.7		22.9		23.0		23.2	
Maximum System Voltage	V	1500 (DC)									
Maximum Series Fuse Rating	A	35									
Operating Module Temperature	℃	-40~+85									

STC: Irradiance 1000W/m², cell temperature 25°C, atmospheric quality AM1.5

NMOT: Irradiance 800W/m², ambient temperature 20°C, AM1.5, wind speed 1m/s

Mechanical Characteristics

Solar Cell (No.of cells)	N-Mono 210x210 66 PCS
Dimensions	2384x1303x33mm
Weight	36.0kg(±3%)
Glass	2.0+2.0mm Low-iron tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated 3 bypass-diodes
Output Cables	4mm ² /2x300mm or Customized length
Mechanical Load	5400Pa/2400Pa
Safety Rate	Class II (IEC)

Temperature Characteristics

Temperature Coefficient of Pmax	%/°C	-0.30
Temperature Coefficient of Voc	%/°C	-0.25
Temperature Coefficient of Isc	%/°C	+0.05
Nominal Module Operating Temperature	°C	45±2

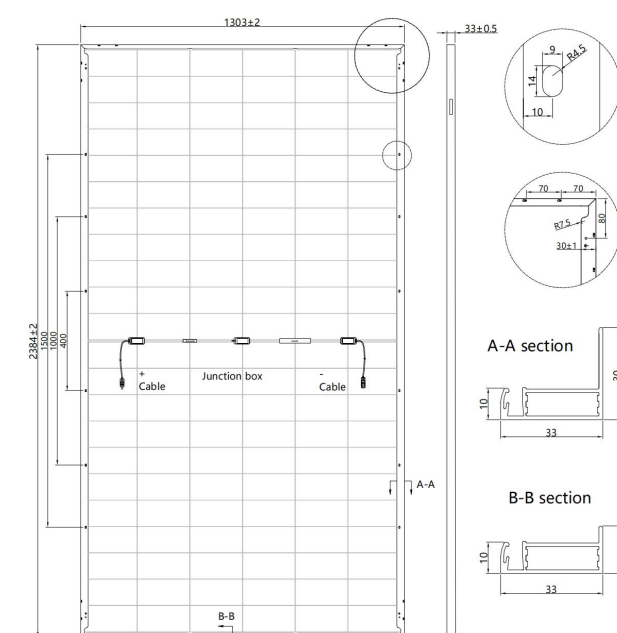
Different Backside Power Gain(590W)

Power Gain		5%	15%	25%
Maximum Power Pmp	W	735.0	805.0	875.0
Optimum Operating Voltage(Voc)	V	40.61	40.61	40.61
Optimum Operating Current(Imp)	A	18.10	19.82	21.55
Open Circuit Voltage (Voc)	V	48.53	48.53	48.53
Short Circuit Current(Imp)	A	19.17	21.00	22.82

Packing Configuration

Container 40'HQ	33PCS/pallet	18pallet/40'HQ	594 PCS/40'HQ
17.5m Land Truck	33PCS/pallet	24pallet/truck	792PCS/truck

Assembly Drawing (mm)



I-V Curves(590W)

