

NTOPCon Cell Technology



620W

Maximum Power Output

22.18% Maximum Module

Efficiency

0~+5W

Power Output Guarantee

Better Weak Illumination Response

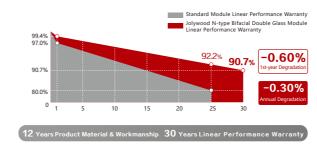
Wide spectral response, higher power output evenunder low-light settings like smog or cloudy days

Better Temperature Coefficient Higher power generation under working conditions, thanks to passivating contact cell technology

Wider Applicability

BIPV, vertical installation, snowfield, high-humid area, windy and dusty area

Linear Performance Warranty



JW-HD156N Series

Electrical Properties	STC*					
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front
Peak Power (Pmax) (W)	595	600	605	610	615	62
MPP Voltage (Vmp) (V)	45.3	45.5	45.7	45.9	46.1	46.
MPP Current (Imp) (A)	13.14	13.19	13.24	13.29	13.35	13.4
Open Circuit Voltage (Voc) (V)	54.3	54.5	54.7	54.9	55.1	55.
Short Circuit Current (Isc) (A)	13.86	13.92	13.98	14.04	14.10	14.1
Module Efficiency (%)	21.29	21.46	21.64	21.82	22.00	22.1
*STC: Irradiance 1000 W/m ² , Cell Temper The data above is for reference only and			with the pratica	I testing		

Electrical Properties		*				
Testing Condition	Front Side					
Peak Power (Pmax) (W)	450	454	458	461	465	469
MPP Voltage (Vmp) (V)	42.5	42.7	42.9	43.1	43.2	43.3
MPP Current (Imp) (A)	10.59	10.63	10.67	10.72	10.76	10.82
Open Circuit Voltage (Voc) (V)	51.9	52.1	52.3	52.5	52.7	52.8
Short Circuit Current (Isc) (A)	11.17	11.22	11.27	11.32	11.37	11.42

*NOCT: Irradiance at 800 W/m². Ambient Temperature 20°C. Wind Speed 1 m/s

Operating Properties	
Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V (IEC)
Maximum Series Fuse Rating(A)	25
Power Tolerance	0~+5W
Bifaciality* *Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tole	80% erance:±5%

Temperature Coefficient		
Temperature Coefficient of Pmax*	-0.320%/°C	
Temperature Coefficient of Voc	-0.260%/°C	
Temperature Coefficient of Isc	+0.046%/°C	
Nominal Operating Cell Temperature (NOCT)	42±2°C	
*Temperature Coefficient of Pmax±0.03%/°C		

chanical Properties

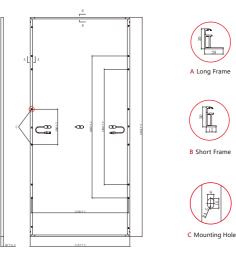
Cell Type 182.00mm*91.00mm
Number of Cells 156pcs(12*13)
Dimension 2465mm*1134mm*30mm
Weight 34.5kg
Front /Rear Glass* 2.0mm/2.0mm
Frame Anodized Aluminium
Junction Box IP67 (3 diodes)
Length of Cable* 4.0mm ² , 300mm
Connector MC4 Compatible

*Heat strengthened glass *Cable length can be customized

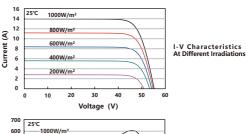
With Different Power Generation Gain (regarding 605W as an example)					
Power Gain (%)	Peak Power (Pmax) (W)	MPP Voltage (Vmp) (V)	MPP Current (Imp) (A)	Open Circuit Voltage (Voc) (V)	Short Circuit Current (Isc) (A)
10	653	45.7	14.29	54.7	15.08
15	678	45.8	14.81	54.8	15.64
20	702	45.8	15.33	54.8	16.19
25	726	45.8	15.85	54.8	16.74
30	750	45.8	16.38	54.8	17.29

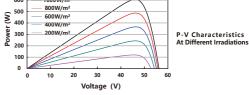
N-type Bifacial High Efficiency Mono Silicon Half-Cell Double Glass Module

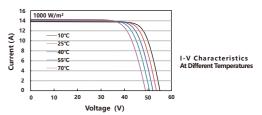
Engineering Drawing (unit: mm)



Characteristic Curves HD156N-605







Packaging Configuration					
Packing Type	20'GP	40'GP	40'HQ		
Piece/Pallet		35			
Pallet/Container	4	9	18		
Piece/Container	140	315	630		
*The specification and key f					

Jolywood (Taizhou) Solar Technology Co., Ltd., a subsidiary under Jolywood Group (stock code: SZ300393), is the world leading n-type bifacial solar cells and modules manufacture. The technology of company NTOPCon, NIBC, TBC, etc, and the annual n-type bifacial production capacity reaches 2.1GW cells and 3GW modules. With vision of "Cultivator of Green Energy", Jolywood adheres to the road of advanced and high efficiency solar technology industrialization.



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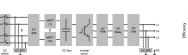


SG250HX New

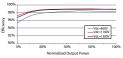
Multi-MPPT String Inverter for 1500 Vdc System







EFFICIENCY CURVE



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Type designation	SG250HX
Input (DC)	
Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	600 V / 600 V
Nominal PV input voltage	1160 V
MPP voltage range	600 V - 1500 V
MPP voltage range for nominal power	860 V - 1300 V
No. of independent MPP inputs	12
Max, number of input connectors per MPPT	2
Max. PV input current	26 A * 12
Max. current for input connector	30 A
Max. DC short-circuit current	50 A * 12
Output (AC)	
AC output power	250 kVA @ 30 °C / 225 kVA @40 °C / 200 KVA @ 50 °C
Max. AC output current	180.5 A
Nominal AC voltage	3 / PE, 800 V
AC voltage range	680 - 880V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 3 % (at nominal power) < 0.5 % In
Power factor at nominal power / Adjustable power factor	< 0.5 % In > 0.99 / 0.8 leading – 0.8 lagging
	> 0.99 / 0.8 leading - 0.8 lagging 3 / 3
Feed-in phases / connection phases	3/3
Efficiency	
Max. efficiency	99.0 %
European efficiency	98.8 %
Protection	
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch	Yes
AC switch	No
PV String current monitoring	Yes
Q at night function	Yes
PID protection	Anti-PID or PID recovery
Overvoltage protection	DC Type II / AC Type II
General Data	
Dimensions (W*H*D)	1051 * 660 * 363 mm
Weight	95kg
Isolation method	Transformerless
Ingress protection rating	IP66
Night power consumption	< 2 W
Operating ambient temperature range	-30 to 60 °C
Allowable relative humidity range (non-condensing)	0 - 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / PLC
DC connection type	Amphenol UTX (Max. 6 mm ²)
AC connection type	OT terminal (Max. 300 mm ²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N
compranee	4110:2018, VDE-AR-N 4120:2018, IEC 61000-6-3, EN 50549, UNE
	410:2018, VDE-AR-N 4120:2018, IEC 61000-6-3, EN 50549, UNE 206007-1:2013, P.O.12.3, UTE C15-712-1:2013
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control
ond support	and power ramp rate control

