

TOPCon 182 Solar Module

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.



High Efficiency

Higher module conversion efficiency benefit from half cell structure(low resistance characteristic).



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Severe Weather Resilience

Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).



12-year Warranty for
Materials and Processing



30-year Warranty for
Extra Linear Power Output



IEC61215, IEC61730, IEC61701, IEC62716,IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

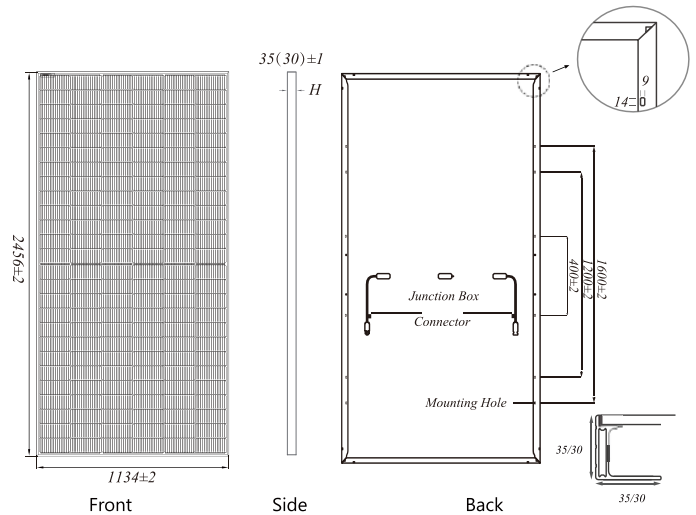


610-630W

STM610-630/156-S5

Half-Cut Cell High Efficiency PV Module

Weight	Dimension(LxWxT)
34.6kg±3%	2456x1134x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
TOPCon 182-16BB	31/620pcs 37/740pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	N-type mono-crystalline
No. of cells	156(2x78)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40 °C ~ +85 °C
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

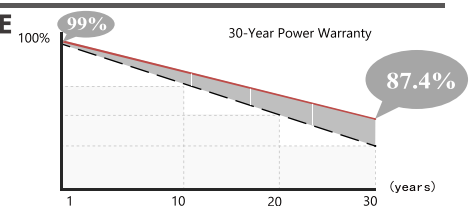
STC:AM1.5 1000W/m² 25 °C NOCT:AM1.5 800W/m² 20 °C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM610/156-S5		STM615/156-S5		STM620/156-S5		STM625/156-S5		STM630/156-S5	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	610	459	615	462	620	466	625	470	630	474
Open Circuit Voltage(Voc/V)	55.25	52.46	55.40	52.60	55.55	52.75	55.70	52.89	55.85	53.03
Short Circuit Current(Isc/A)	14.11	11.40	14.18	11.46	14.25	11.52	14.32	11.57	14.39	11.63
Voltage at Maximum Power(Vmp/V)	45.59	42.26	45.69	42.39	45.79	42.53	45.92	42.66	46.02	42.79
Current at Maximum Power(Imp/A)	13.38	10.85	13.46	10.90	13.57	10.96	13.61	11.01	13.69	11.07
Module Efficiency(%)	21.90		22.08		22.27		22.44		22.62	

TEMPERATURE RATINGS

Norminal Operating Cell Temperature(NOCT)	45±2 °C
Temperature Coefficient of Isc	+0.045%/ °C
Temperature Coefficient of Voc	-0.275%/ °C
Temperature Coefficient of Pmax	-0.350%/ °C

ADDITIONAL VALUE



I-V CURVE(STM610-630/156-S5)

