

TOPCon 182 Solar Module 630-650W

STM630-650/156-S5



Higher power output **23.3%** up to

- PID Resistance
- Low-light Performance
- Severe Weather Resilience
- Durability Against Extreme Environmental Conditions

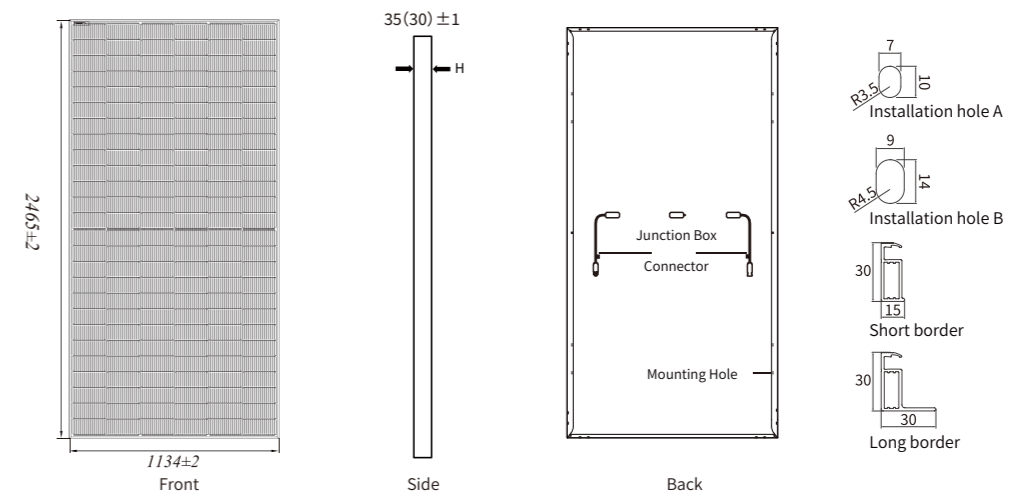
12
YEARS

12-year Warranty for Materials and Processing

30
YEARS

30-year Warranty for Extra Linear Power Output

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
GB/T 29490-2013



Remark: customized frame color and cable length available upon request

Packaging(pcs/40HQ container)	13 meter semi hanging	Dimensions	Weight
31/496pcs 37/592pcs	31/620pcs 37/740pcs	2465x1134x35(30)mm	30.0kg±3%

MECHANICAL SPECIFICATION				OPERATING PARAMETERS			
Cell	N-type mono-crystalline			Maximum System Voltage	1500VDC		
No.of cells	156(6x26)			Operating Temperature	-40°C~+85°C		
Cable Length	300mm(+)/300mm(-)			Maximum Series Fuse	25A		
Cable Cross Section Size	4mm ² (IEC)			Maximum StaticLoad,Front	5400Pa(112lb/ft ²)		
Junction Box	IP68,3 diodes			Maximum StaticLoad,Back	2400Pa(50lb/ft ²)		
Connector	MC4 Compatible			Safety Class	Class II		
STC:AM1.5 1000W/m ² 25°C NOCT:AM1.5 800W/m ² 20°C 1m/s				Test Uncertainty for Pmax ±3%			

Module Type	STM-630/156-S5		STM-635/156-S5		STM-640/156-S5		STM-645/156-S5		STM-650/156-S5	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	630	474	635	478	640	482	645	485	650	489
Open Circuit Voltage(Voc/V)	55.70	52.86	55.83	52.99	55.96	53.11	56.09	53.23	56.22	53.36
Short Circuit Current(Isc/A)	14.12	11.40	14.18	11.45	14.24	11.49	14.30	11.54	14.36	11.59
Voltage at Maximum Power(Vmp/V)	46.50	44.25	46.63	44.41	46.76	44.57	46.89	44.73	47.02	44.89
Current at Maximum Power(Imp/A)	13.55	10.71	13.62	10.76	13.69	10.80	13.76	10.85	13.83	10.89
Module Efficiency(%)	22.50		22.70		22.90		23.10		23.30	

TEMPERATURE RATINGS		ADDITIONAL VALUE	
Normal 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		

