

TOPCon 182 Solar Module 645-665W

STM645-665/156-S5

Higher power output **23.9%** up to

PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme
Environmental Conditions



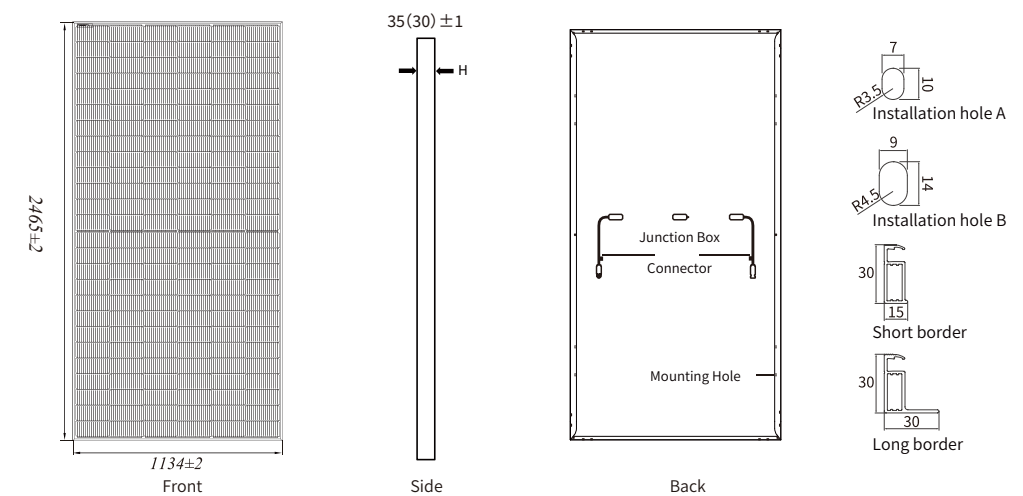
12
YEARS

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	4mm²(IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Junction Box	IP68,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Connector	MC4 Compatible	Safety Class	Class II
STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s		Test Uncertainty for Pmax ±3%	

Module Type	STM-645/156-S5		STM-650/156-S5		STM-655/156-S5		STM-660/156-S5		STM-665/156-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)	645	485	650	489	655	493	660	497	665	500
Open Circuit Voltage(Voc/V)	56.09	53.23	56.22	53.36	56.35	53.48	56.48	53.60	56.61	53.73
Short Circuit Current(Isc/A)	14.30	11.54	14.36	11.59	14.42	11.64	14.48	11.69	14.54	11.74
Voltage at Maximum Power(Vmp/V)	46.89	44.73	47.02	44.89	47.15	45.05	47.28	45.20	47.41	45.36
Current at Maximum Power(Imp/A)	13.76	10.85	13.83	10.89	13.90	10.94	13.97	10.99	14.04	11.03
Module Efficiency(%)	23.10		23.30		23.40		23.60		23.90	

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		

