

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



25-year Warranty for Extra Linear Power Output

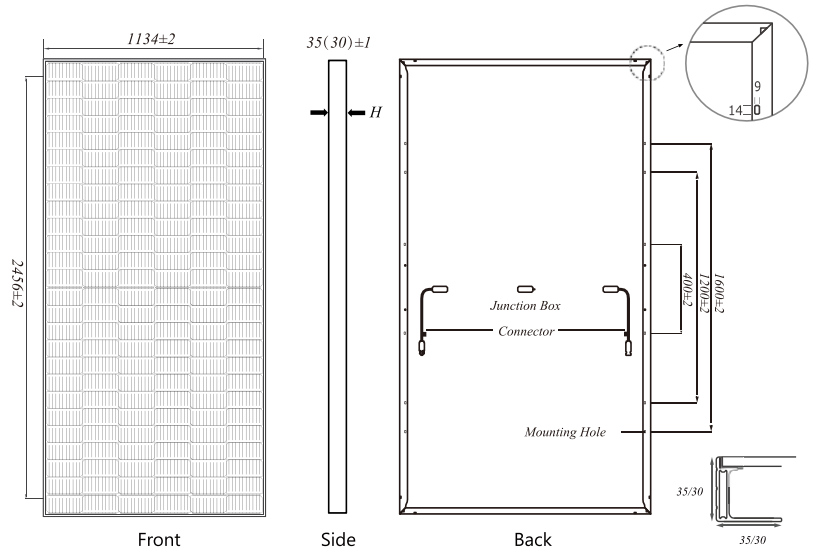


570-600W

STM570-600W/156-S3

Half-Cut Cell High Efficiency PV Module

Weight	Dimension(LxWxT)
28.6kg±3%	2456x1134x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
Mono 182-10BB	31/620pcs 37/740pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	156(6x26)
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	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

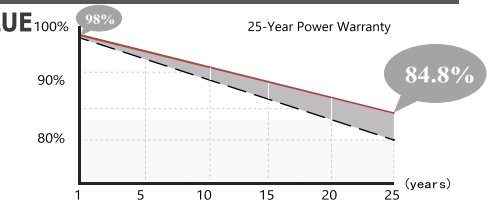
STC:AM1.5 1000W/m² 25 C NOCT:AM1.5 800W/m² 20 C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM570/156-S3		STM575/156-S3		STM580/156-S3		STM585/156-S3		STM590/156-S3		STM595/156-S3		STM600/156-S3	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	570	429.4	575	433.1	580	436.9	585	440.7	590	444.4	595	448.2	600	452.0
Open Circuit Voltage(Voc/V)	50.5	47.25	50.56	47.39	50.8	41.01	50.95	41.13	51.10	41.25	51.25	41.37	51.40	41.49
Short Circuit Current(Isc/A)	14.28	11.53	14.35	11.58	14.42	13.49	14.49	13.56	14.56	13.62	14.63	13.69	14.70	13.75
Voltage at Maximum Power(Vmp/V)	42.60	39.30	42.76	44.92	42.92	38.87	43.08	38.98	43.24	39.10	43.40	39.21	43.56	39.33
Current at Maximum Power(Imp/A)	13.39	10.93	13.46	10.98	13.53	12.79	13.6	12.85	13.67	12.91	13.74	12.97	13.81	13.04
Module Efficiency(%)	20.50		20.60		20.80		21.00		21.20		21.40		21.50	

TEMPERATURE RATINGS

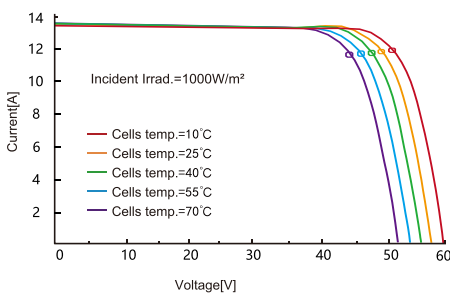
Norminal Operating Cell Temperature(NOCT)	45±2 C
Temperature Coefficient of Isc	+0.045%/C
Temperature Coefficient of Voc	-0.275%/C
Temperature Coefficient of Pmax	-0.350%/C

ADDITIONAL VALUE

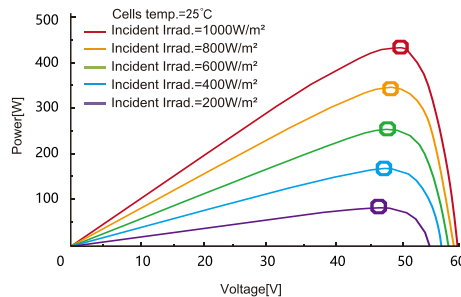


I-V CURVE(STM570-600/156-S3)

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

