

MONO-CRYSTALLINE

STM6-XXX/60 5BB Series 300W-320W

25

linear power
output warranty

12

Guarantee on product
Material and workmansh



5 Busbar Solar Cell

5 Busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop



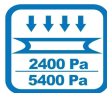
High Efficiency

Higher module conversion efficiency (up to 19.66%) benefit from half cell structure (low resistance characteristic).



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.



Low-light Performance

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



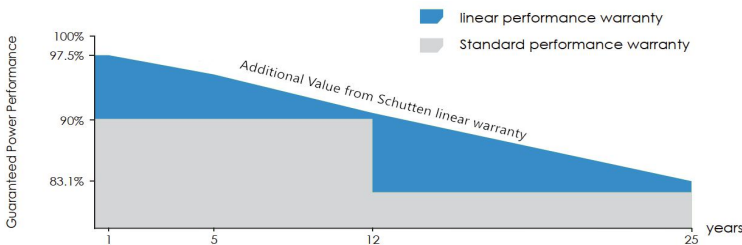
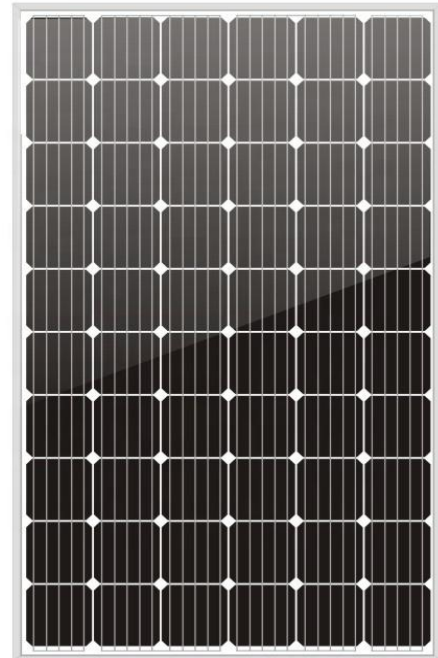
Severe Weather Resilience

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



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.






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Electrical Characteristics

Module Type	STM6-300/60	STM6-305/60	STM6-310/60	STM6-315/60	STM6-320/60
Maximum Power (Pmax)	300	305	310	315	320
Maximum Power Voltage (Vmp)	33.12	33.44	33.73	34.09	34.15
Maximum Power Current (Imp)	9.06	9.12	9.19	9.26	9.37
Open-circuit Voltage (Voc)	39.98	40.13	40.36	40.73	40.90
Short-circuit Current (ISC)	9.87	9.81	9.91	9.98	10.15
Module Efficiency STC (%)	18.44	18.74	19.05	19.36	19.66
Power Tolerance	0-+5W	0-+5W	0-+5W	0-+5W	0-+5W

 **STC: Irradiance 1000W/m²**
 **Cell Temperature 25±2°C**
 **AM=1.5**

Mechanical Characteristics

Cell Type	Mono-crystalline 156.75*156.75mm full
No. of Cells	60 (6*10)
Dimensions	1640*992*35mm
Weight	18.0kgs
Front Glass	3.2mm High Transmission Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output cables	4mm ² cable 300mm or customized
Connector	MC4 Compatible
Hailstone Impact Test	80Km/h for 25mm ice ball

Thermal Characteristics

Nominal Operating Cell Temperature	45±2°C
Temperature coefficients of Pmax	-0.36%/°C
Temperature coefficients of Voc	-0.26%/°C
Temperature coefficients of Isc	+0.04%/°C

Packing Configuration

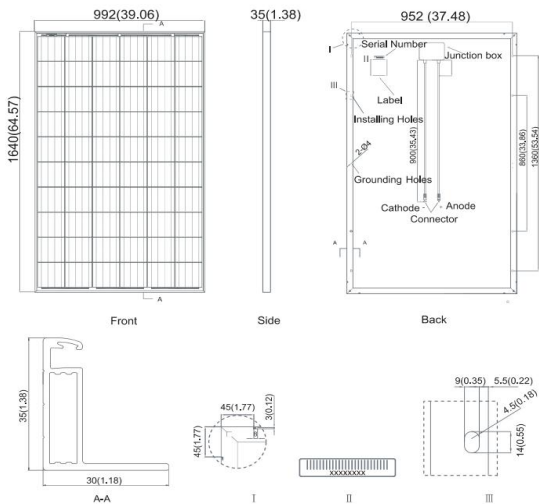
Container	40' HQ
Pieces Per Pallet	31/6
Pallets Per CNTR.	28/14
Pieces Per CNTR.	952

Maximum Rating

Operating temperature	-40-+85°C
Max System Voltage (IEC)	1500VDC
Max System Voltage (BIS)	1500VDC
Max Series Fuse Rating	15A

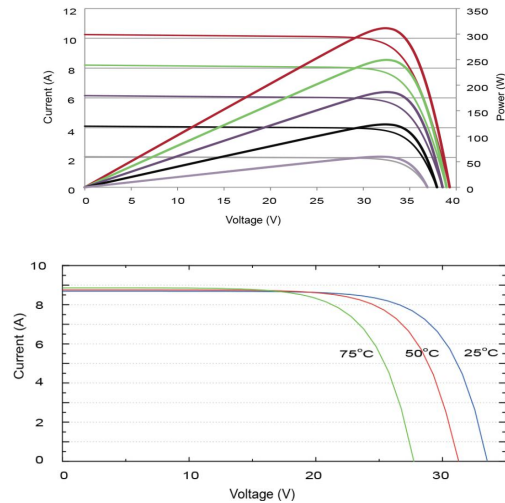
Engineering Drawing

*All dimensions in mm



I-V Curves

Current- Voltage & Power-Voltage Curves 315W



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