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Solar Panel Guide Specification Data Sheet

**HHV Solar Technologies Pvt. Ltd.
Mono 60 Cell 295 - 310 W
HST60F310M**

Also available on the web at
EnergyPal.com/hhv-solar-technologies-pvt-ltd-solar-panels/hst60f310m

60 CELL MODULE

MONO-CRYSTALLINE

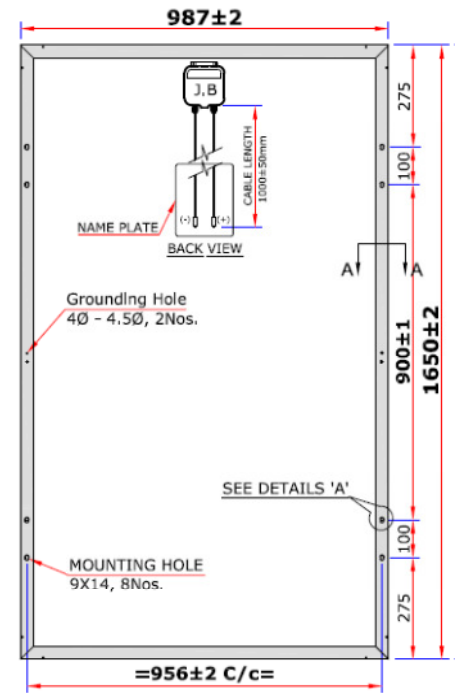
HST60FXXXM

ELECTRICAL CHARACTERISTICS

Rated power	Pm	W	295	300	305	310
Open circuit voltage	Voc	V	39.60	39.83	40.06	40.25
Maximum power voltage	Vmp	V	32.35	32.50	32.67	33.05
Short circuit current	Isc	A	9.72	9.81	9.90	9.83
Maximum power current	Imp	A	9.12	9.24	9.34	9.38
Module efficiency	η	%	18.11-18.41	18.42-18.71	18.72-19.02	19.03-19.34
Power tolerance	W				-0 / +4.99	

CONSTRUCTION

Cell / Matrix	60; Mono Crystalline; 10 x 6
Dimension	1650 x 987 x 40 mm
Weight	17.50 kg
Glass	ARC; Low Iron; Tempered; High Light Transmission; 3.2mm
Junction Box	IP68; Potted
Cable	4mm ² (12 AWG) ; 1000±50mm length
Connector	TL - CABLE01S; MC4 Compatible
Diode	Schottky Bypass Diodes; 3 Nos
Frame	18μ Anodized aluminum alloy; twin wall profile
Locking	Corner key type

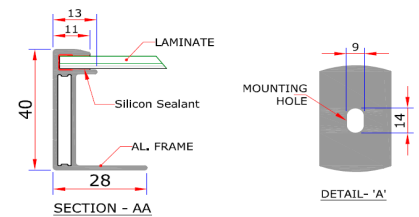


MAXIMUM RATINGS

System Voltage	1500 VDC (IEC, UL) 1000 VDC (BIS)
Fuse Rating	15 A
Application Class	Class A Protection Class II
Fire Class	"C" (IEC); Type 1 (UL)
Load	2400 Pa (Wind) & 5400 Pa (Snow)

TEMPERATURE RATINGS

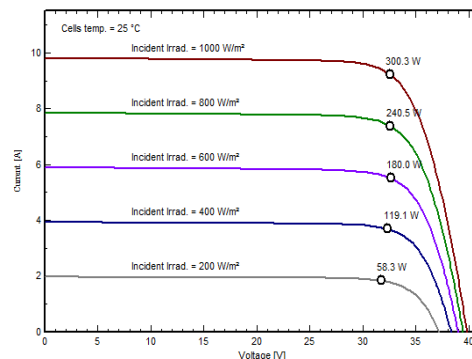
NOCT	44°C (±2°C)
Tc of Voc	-0.29 %/°C
Tc of Isc	+0.05 %/°C
Tc of Pm	-0.38 %/°C
Operating range	-40°C to +85°C



SALIENT FEATURES

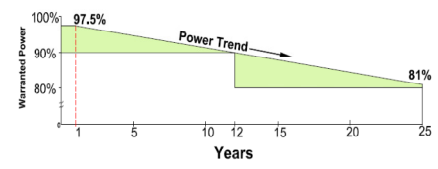
- BIS Certified (IS 14286 & IS/IEC 61730-1 & 2)
- Salt Mist Resistance; Certified for Severity 6
- Ammonia Resistance (IEC 62716)
- 1500VDC (IEC, UL) / 1000VDC (IEC, BIS)
- PID resistant (3 times of IEC Criteria)
- Micro-crack free
- Multi stage 100% in-line EL passed
- Higher energy yield on field performance
- More than 25 in-house quality checks
- Positive tolerance up to +5W
- Best in class material for true 25 years life
- IEC-61215 & 61730 (2016), UL-61215 & 61730 (2017)
- IEC 60701, IEC 62804, IEC 62716 Certified

I-V Curve of 300W at 25°C cell temp. and different Irradiance level



WARRANTY

Product	10 Years
Performance	90% of rated power for 12 Yr 81% of rated power for 25 Yr



Notes :

Note: • Design and Specifications are subject to change without notice. • Electrical Parameters measured at STC only (at 25°C, 1000W/M²). • Please refer to installation manual and strictly adhere to instruction / guidelines to qualify for warranty terms.

