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Solar Panel Guide Specification Data Sheet

Zhejiang Shengtai Energy Co., Ltd.

ST-60M 280-300

ST-60M-285

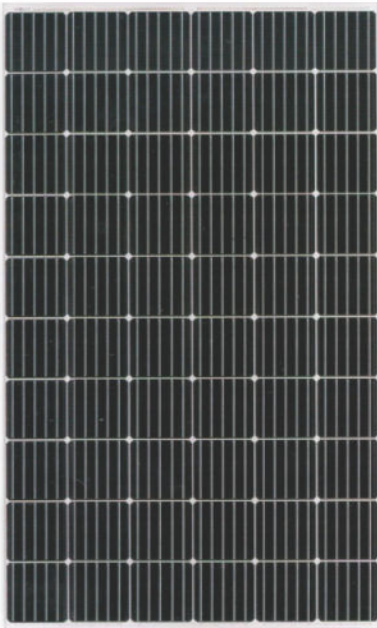
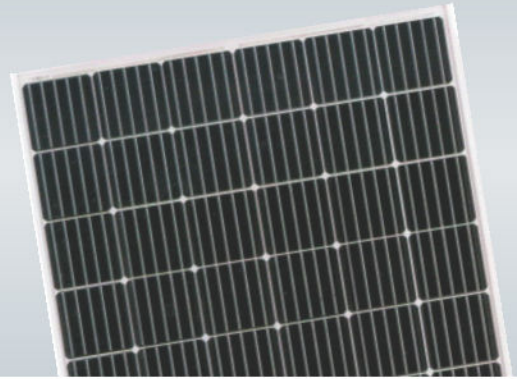
Also available on the web at
EnergyPal.com/zhejiang-shengtai-energy-co-ltd-solar-panels/st-60m-285

280-300 Watt

MONO CRYSTALLINE MODULE

Positive power tolerance of 0~+5W

ISO9001:2008, ISO14001:2004
certified factory.
IEC61215, IEC61730 certified products.



KEY FEATURES



5 Busbar Solar Cell:

No power loss thanks to improved temperature co-efficient caused by 5 Busbar solar cell



High Power Output:

Up to 300W and 18.33% efficiency, highest performing module of its Kind on the market



PID RESISTANT:

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



Low-light Performance:

Excellent performance in low-light environments

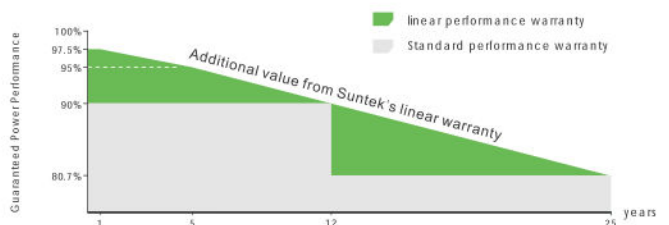


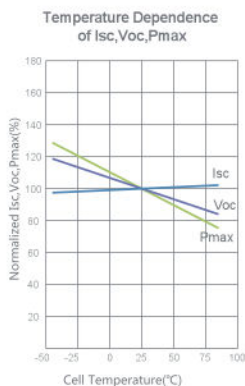
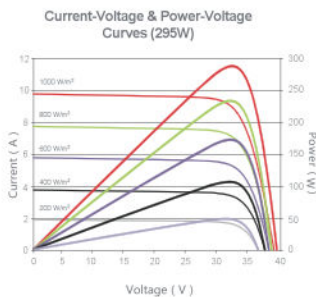
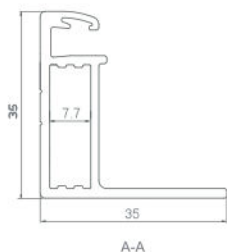
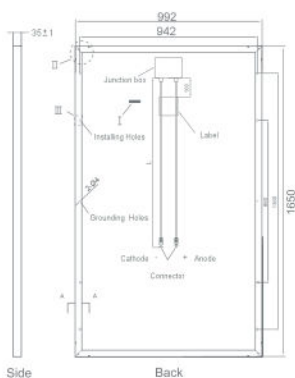
Severe Weather Resilience:

Certificated to withstand: wind load(2400 Pascal) and snow load(2400 Pascal)

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty





ELETRICAL DATE(STC)

Module model	ST-60M-280	ST-60M-285	ST-60M-290	ST-60M-295	ST-60M-300
Max.Power-Pmax(Wp)	280	285	290	295	300
Max.Power Voltage-Vmp(V)	31.8	32.0	32.2	32.4	32.6
Max.Power Current-Imp(A)	8.80	8.90	9.01	9.10	9.20
Open-circuit Voltage-Voc(V)	39.1	39.4	39.6	39.8	40.1
Short-circuit Current-Isc(A)	9.29	9.40	9.51	9.61	9.71
Module efficiency(%)	17.11	17.41	17.72	18.02	18.33
Power Output Tolerance-Pmax(W)	0~+5				

STC:1000W/m2 Irradiance,25°C Module Temperature,AM1.5g Spectrum
 *Measuring Tolerance:+-3%

ELETRICAL DATE(NOCT)

Module model	ST-60M-280	ST-60M-285	ST-60M-290	ST-60M-295	ST-60M-300
Max.Power-Pmax(Wp)	210	213	217	220	224
Max.Power Voltage-Vmp(V)	31.8	30.0	30.2	30.4	30.6
Max.Power Current-Imp(A)	7.02	7.1	7.17	7.24	7.32
Open-circuit Voltage-Voc(V)	36.2	36.4	36.6	36.8	37.0
Short-circuit Current-Isc(A)	7.6	7.69	7.79	7.89	8.01

NOCT: Irradiance at 800W/m2,Ambient Temperature 20°C,Wind Speed 1m/s

MACHANICAL CHARACTERISTICS

Solar Cells	Mono-cyrstalline 156*156mm(6 inch)
No.of Cells	60 (6*10)
Module Dimension	1650*992*35mm(65.00*39.1*1.37inch)
Module Weight	18.5Kg(40.8lb)
Front Glass	3.2mm,High Transmission,Coated Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 or IP68 rated;3 Diodes
Output Cables	1*4.0mm2;900mm or 1200mm

OPERATING CONDITIONS

Max. system voltage	1000Vdc
Max. series fuse rating	15A
Operating temperature	-40°C~+85°C

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	45±2°C
Temperature Coefficient of Pmax	-0.39%/°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.048%/°C

PACKAGING CONFIGURATION

Modules per Pallet	30pcs
Modules per Stack	60PCS
Modules per 40HQ	840PCS