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Solar Panel Guide Specification Data Sheet

Zhejiang Shengtai Energy Co., Ltd.

ST-72M 340-360

ST-72M-345

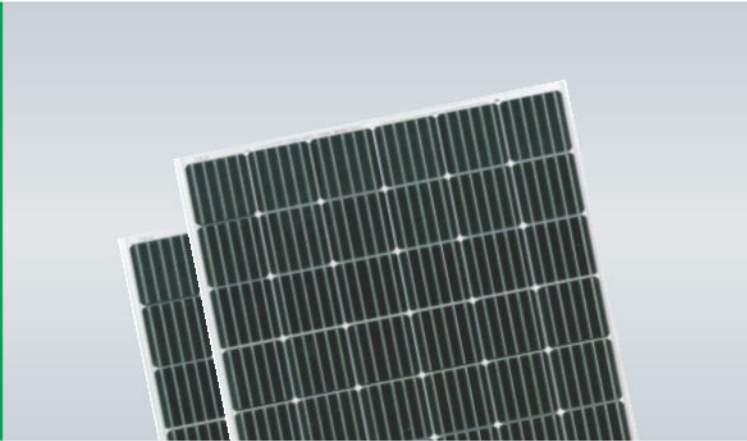
Also available on the web at
EnergyPal.com/zhejiang-shengtai-energy-co-ltd-solar-panels/st-72m-345

340-360 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 360W and 18.55% 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

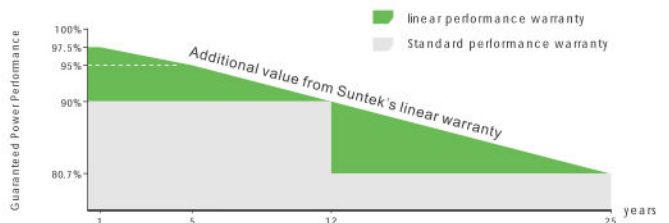


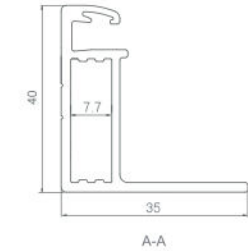
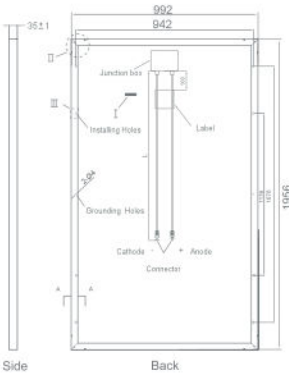
Severe Weather Resilience:

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

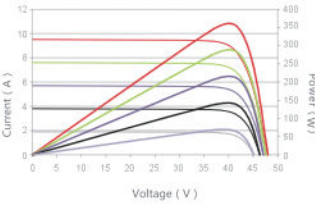
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

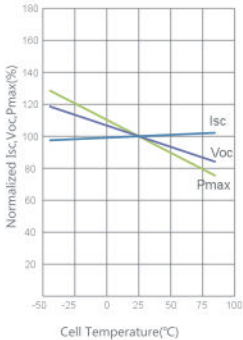




Current-Voltage & Power-Voltage Curves (355W)



Temperature Dependence of Isc, Voc, Pmax



ELECTRICAL DATE(STC)

Module model	ST-72M-340	ST-72M-345	ST-72M-350	ST-72M-355	ST-72M-360
Max.Power-Pmax(Wp)	340	345	350	355	360
Max.Power Voltage-Vmp(V)	38.8	39.0	39.2	39.4	39.6
Max.Power Current-Imp(A)	8.76	8.85	8.93	9.01	9.09
Open-circuit Voltage-Voc(V)	47.0	47.4	47.7	48.0	48.2
Short-circuit Current-Isc(A)	9.20	9.31	9.40	9.50	9.60
Module efficiency(%)	17.52	17.78	18.04	18.30	18.55
Power Output Tolerance-Pmax(W)	0~+5				

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

ELECTRICAL DATE(NOCT)

Module model	ST-72M-340	ST-72M-345	ST-72M-350	ST-72M-355	ST-72M-360
Max.Power-Pmax(Wp)	255	258	262	266	270
Max.Power Voltage-Vmp(V)	37.0	37.2	37.4	37.6	37.8
Max.Power Current-Imp(A)	6.90	6.95	7.01	7.08	7.14
Open-circuit Voltage-Voc(V)	45.8	46.0	46.2	46.4	46.6
Short-circuit Current-Isc(A)	7.25	7.33	7.41	7.50	7.58

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	72 (6*12)
Module Dimension	1956*992*40mm(77.00*39.1*1.57inch)
Module Weight	22.5Kg(49.5lb)
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	26pcs
Modules per Stack	52PCS
Modules per 40HQ	624PCS