

Bi-Facial Module

STS-550P-72BB

144 PCS HALF-CUT Bi-Facial 530W-550W



Anti-reflection coating and Self-cleaning glass



Special cutting and soldering technology leads to low hotspot risk



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Sand blowing test, salt mist test and ammonia test passed to ensure harsh environments



Optimized system performance due to module level current sorting



Highly transparent self-cleaning glass brings additional yield and easy maintenance

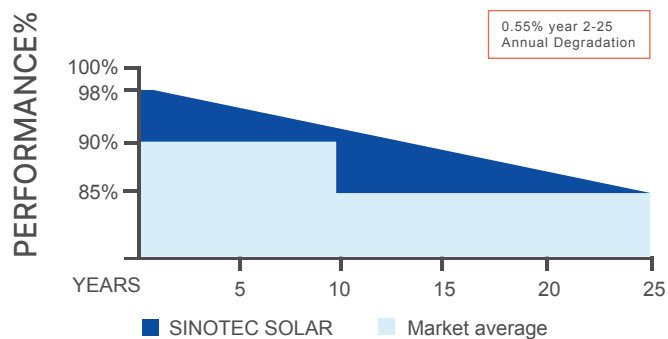
SINOTEC SOLAR



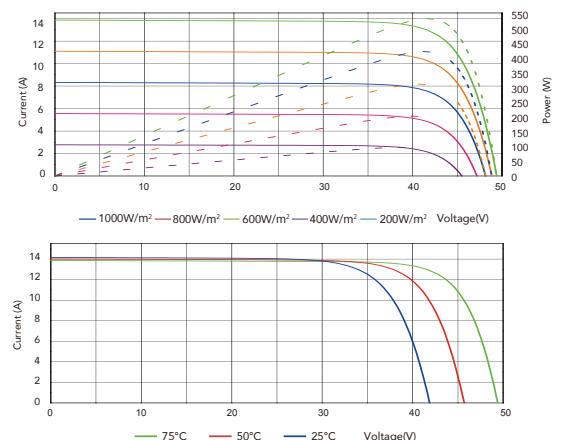
25 Years Product Warranty

25 Years Linear Warranty

25 Years Workmanship Warranty



IV CURVES



ELECTRICAL PARAMETERS

Module Type	STS-530P-72BB		STS-535P-72BB		STS-540P-72BB		STS-545P-72BB		STS-550P-72BB	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax (W)	530	395	535	398	540	402	545	406	550	410
Maximum Power Voltage - Vmpp (V)	41.32	38.6	41.48	38.7	41.64	38.8	41.80	39.0	41.96	39.1
Maximum Power Current - Imp (A)	12.83	10.24	12.90	10.30	12.97	10.36	13.04	10.41	13.11	10.47
Open Circuit Voltage - Voc (V)	49.32	46.4	49.46	46.5	49.60	46.7	49.76	46.8	49.92	47.0
Short Circuit Current - Isc (A)	13.72	11.06	13.79	11.12	13.86	11.17	13.93	11.23	14.00	11.28
Module Efficiency	20.50%		20.70%		20.90%		21.10%		21.30%	

BIFACIAL REARSIDE POWER GAIN

Module		Bifaciality: 70±5%			
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
578W	5%	49.92	14.70	41.96	13.77
605W	10%	49.92	15.40	41.96	14.42
633W	15%	49.92	16.10	41.96	15.08
660W	20%	49.92	16.80	41.96	15.73
688W	25%	49.92	17.50	41.96	16.39

Bifacial gain: the additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle, etc.) and albedo of the ground.

TEMPERATURE CHARACTERISTICS

NMOT	43°C (±2°C)	Dimensions	2279×1134×35mm (L×W×H)
Temperature Coefficient of Pmax	-0.35%/°C	Weight	28kg
Temperature Coefficient of Isc	+0.048%/°C	Frame	Silver anodized aluminum alloy
Temperature Coefficient of Voc	-0.26%/°C	Glass	3.2 mm coated tempered glass
		Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
		Back Sheet	Transparent
		Solar Cells	144(6×24) monocrystalline (182mm×91mm)
		Junction Box	IP68, 3 bypass diodes
		Cable & Connector	Length 1400mm, 1x4mm²/ MC4 and MC4 Compatible

MECHANICAL CHARACTERISTICS

MAXIMUM RATINGS

Maximum System Voltage (V)	1500
Series Fuse Rating (A)	25

PACKAGING

Pallet Dimensions	2304x1130x1247mm
Pallet Quantity	31 Modules
Truck (53') Quantity	744 Modules

SYSTEM DESIGN

Temperature Range	-40°C to +85°C
Mechanical Load Front	5,400 Pa
Mechanical Load Back	2,400 Pa
Safety Protection Class	Class II

