



S3-550/144

550w / 144 Cells

With excellent anti-PID performance guarantee, higher module conversion efficiency and advanced glass & cell surface textured design, the S3 solar panel is durable, resilient and highly performative.

FEATURES



15-year Warranty for Materials & Processing



30-year Warranty for Extra Linear Power Output



Durability Against Extreme Environmental Conditions

(High salt mist & ammonia resistance certified by TUV NORD)



PID Resistance

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



High Efficiency

(Higher module conversion efficiency [up to 21.30%] benefit from half cell structure [low resistance characteristic])



Low-light Performance

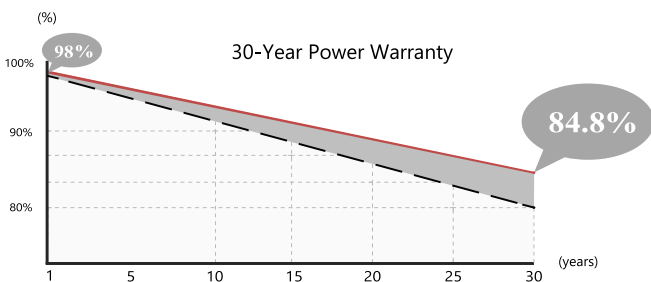
(Advanced glass and cell surface textured design ensure excellent performance in low-light environment)



Severe Weather Resilience

(Certified to withstand: Wind load 2400 pascal, & snow load 5400 pascal)

Additional Value



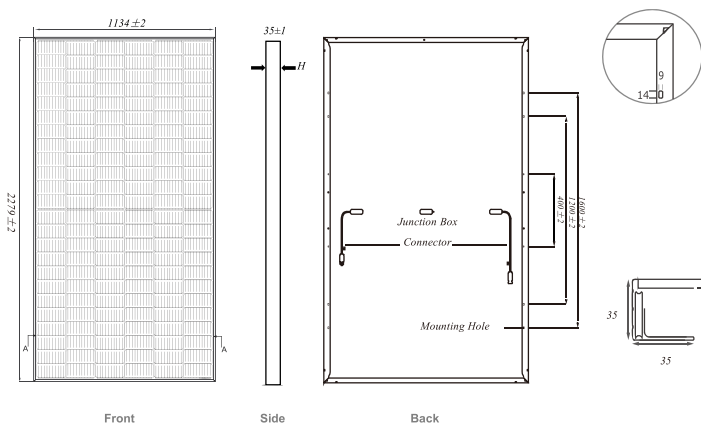
IEC61215, IEC61730, IEC61701, IEC62716, IEC62804
ISO 9001:2015: ISO Quality Management System
ISO 14001: 2015: ISO Environment Management System

SPECIFICATIONS

Model		S3-550/144	
Mechanical Specification			
Cell	Mono		
No. of Cells	144 (6x24)		
Cable Length	300 mm (+) / 300 mm (-)		
Cable Cross Section Size	4 mm ² (IEC)		
Junction Box	IP68,3 diodes		
Connector	MC4		
Operation			
Maximum System Voltage	1,500 VDC		
Maximum Series Fuse	25 A		
Maximum Static Load, Front	5,400 Pa (112 lb/ft ²)		
Maximum Static Load, Back	2,400 Pa (50 lb/ft ²)		
Operating Temperature	-40°C ± 85°C		
Safety Class	Class II		
Electrical Characteristics			
Testing Condition	STC	NOCT	
Maximum Power (Pmax/Wp)	550	414.3	
Open Circuit Voltage (Voc/V)	49.90	46.68	
Short Circuit Current (Isc/A)	14.00	11.30	
Voltage at Maximum Power (Vmp/V)	41.96	36.68	
Current at Maximum Power (Imp/A)	13.11	10.71	
Module Efficiency (%)	21.28		
Temperature Ratings			
Nominal Operating Cell Temperature	45 ± 2°C		
Temperature Coefficient of Isc	+0.045% /°C		
Temperature Coefficient of Voc	-0.275% /°C		
Temperature Coefficient of Pmax	-0.350% /°C		
Physical			
Dimension, L x W x T (mm)	2,279 ± 2 x 1,134 ± 2 x 35 ± 1		
Net Weight (kg)	28.6 ± 3%		
Cells Type	Mono 182 x 91 mm		
Packaging	31 pcs/pallet, 620 pcs/40 HQ container		

STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ± 3%

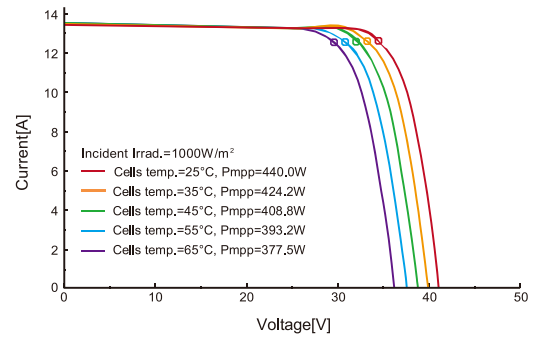
LAYOUT



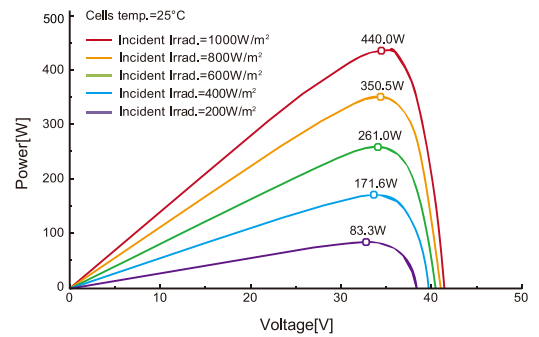
*Customized frame color and cable length available upon request

CHARACTERISTICS

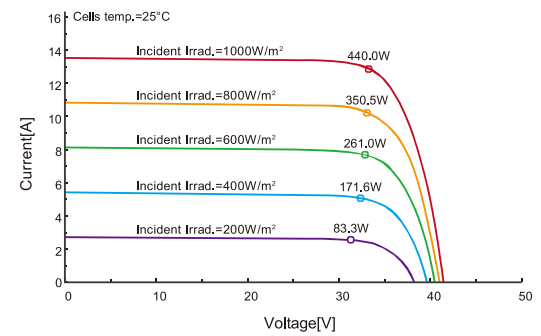
Current/Voltage curve (A/V)



Power/Voltage curve (W/V)



Current/Voltage curve (A/V)



Product specifications are subject to change without prior notice.



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