

STM-XXX/144-S3 10BB Series 525-550W

25
Years

Linear power
output warranty

12
Years

Guarantee on
Material and
Technology



High Efficiency

Higher module conversion efficiency(up to 21.3%) benefit from half cell structure(low resistance characteristic).



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production. (Potential Induced Degradation) under the test conditions used by PID would



Low-light Performance

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



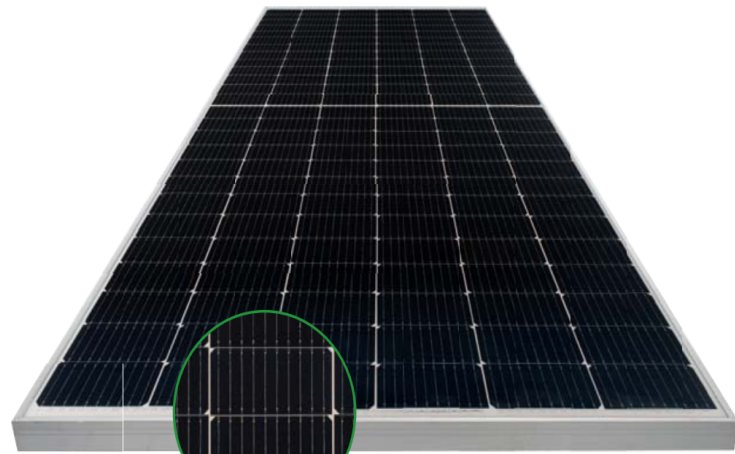
Severe Weather Resilience

Certified to withstand:Wind load (2400 pascal) and snow load (5400 pascal).



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

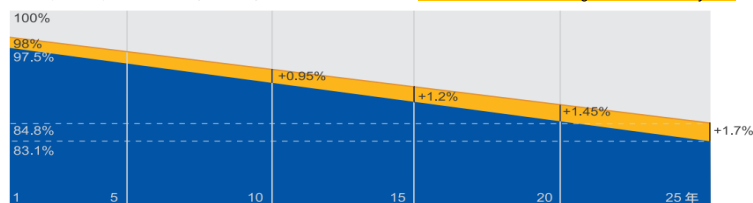


Half Cell Technology

First Class Warranty

- 12 years material and technology warranty
- 25 years guaranteed power performance

Annual 0.55% linear degradation for 25 years



■ liner performance warranty

■ standard performance warranty



Headquarters Address (Chuzhou):Weisan Rd,Quanjiao Economic Development Area,Chuzhou City,Anhui Province,China,239500
Factory(Thailand): 41/9 moo.8 T.Bowin,A. Sriracha,Chonburi, Thailand,20230



Schutten^{solar}

Tel: +86 25-86816810

+86 550-2309825

+86 519-89886585

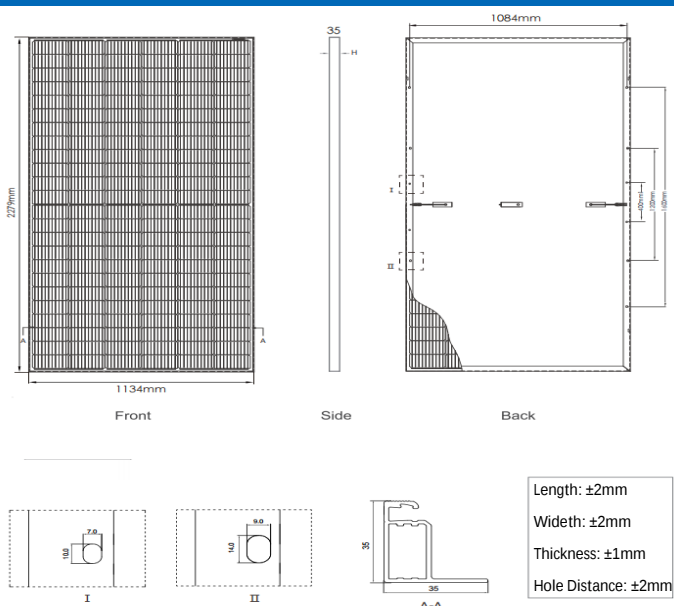
Mail: info@schutten.cn

Website: www.schutten-solar.com

Electrical Characteristics at STC						
Module Type	STM-525/144-S3	STM-530/144-S3	STM-535/144-S3	STM-540/144-S3	STM-545/144-S3	STM-550/144-S3
Maximum Power (Pmax)	525	530	535	540	545	550
Open-circuit Voltage (Voc)	49.15	49.30	49.45	49.60	49.75	49.9
Maximum Power Voltage (Vmp)	41.15	41.31	41.47	41.64	41.80	41.96
Short-circuit Current (Isc)	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current (Imp)	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency STC (%)	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance	0~+5W					
Temperature Coefficient of Isc (α -Isc)	+0.045%/°C					
Temperature Coefficient of Voc (β -Voc)	-0.275%/°C					
Temperature Coefficient of Pmax (γ -Pmp)	-0.350%/°C					
STC	☀ Irradiance 1000W/m ² 🌡 Cell Temperature 25°C ☁ AM=1.5					

Electrical Characteristics at NOTC						
Module Type	STM-525/144-S3	STM-530/144-S3	STM-535/144-S3	STM-540/144-S3	STM-545/144-S3	STM-550/144-S3
Rated Max Power (Pmax)	397	401	405	408	412	416
Open-circuit Voltage (Voc)	46.05	46.18	46.31	46.43	46.55	46.68
Maximum Power Voltage (Vmp)	38.36	38.57	38.78	38.99	39.20	39.43
Short-circuit Current (Isc)	10.97	11.01	11.05	11.09	11.13	11.17
Maximum Power Current (Imp)	10.35	10.39	10.43	10.47	10.51	10.55
NOTC	☀ Irradiance 800W/m ² 🌡 Cell Temperature 20°C ☁ AM=1.5 🌬 Wind Speed=1m/s					

Mechanical Diagrams



Specifications

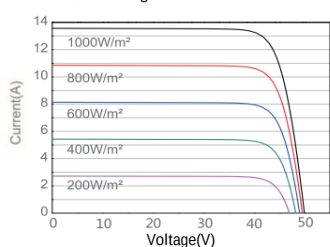
Cell	Mono
No. of cells	144(6×24)
Dimensions	2279 $\pm$ 2mm x 1134 $\pm$ 2mm x 35 $\pm$ 1mm
Weight	28.6kgs $\pm$ 3%
Cable Length	300mm (+) /300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4
Packaging Configuration	31Pcs/Pallet, 620Pcs/40ft container

Operating Conditions

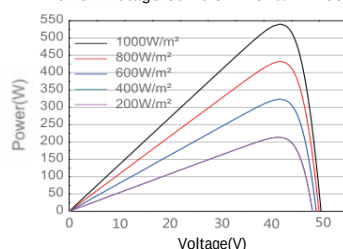
Maximum System Voltage	1000/1500V DC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
Maximum Static Load, Front	5400Pa(112lb/ft ²)
Maximum Static Load, Back	2400Pa(50lb/ft ²)
Safety Class	Class II

Characteristics

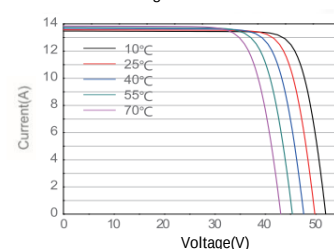
Current-Voltage Curve STM-540/144-S3



Power-Voltage Curve STM-540/144-S3



Current-Voltage Curve STM-540/144-S3



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