



525~550M

STM-525-550/144-S3

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



PID Resistance

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



High Efficiency

Higher module conversion efficiency(up to 21.28%) 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) and snow load(5400 pascal).



12-year Warranty for Materials and Processing



25-year Warranty for Extra Linear Power Output



STM-525-550/144-S3

525-550W

Half-Cell High Efficiency PV Module

Weight

28kgs±3%

Cells Type

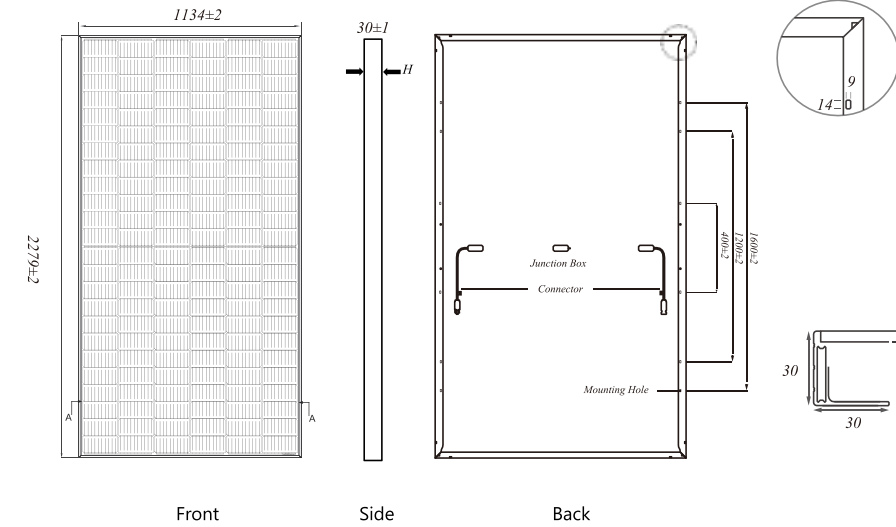
Mono 182x91mm

Dimension(LxWxT)

2279±2mmx1134±2mmx30±1mm

Packaging

36pcs/pallet, 720pcs/40HQ container



Front Side Back
Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	144(6x24)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	ClassII

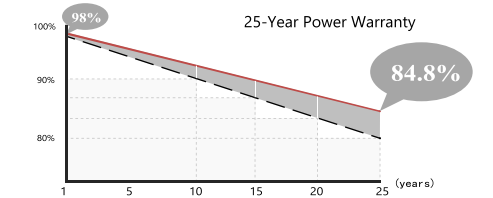
ELECTRICAL CHARACTERISTICS

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	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	525	395.5	530	399.2	535	403.0	540	406.8	545	410.5	550	414.8
Open Circuit Voltage(Voc/V)	4915	45.98	49.30	46.12	49.45	46.26	49.60	46.40	49.75	46.54	49.90	46.68
Short Circuit Current(Isc/A)	13.65	11.02	13.72	11.07	13.79	11.13	13.86	11.19	13.93	11.24	14.00	11.30
Voltage at Maximum Power(Vmp/V)	41.15	37.87	41.31	38.03	41.47	38.20	41.64	38.36	41.80	38.52	41.96	38.68
Current at Maximum Power(Imp/A)	12.76	10.44	12.83	10.50	12.90	10.55	12.97	10.60	13.04	10.66	13.11	10.71
Module Efficiency(%)	20.31		20.51		20.70		20.89		21.09		21.28	

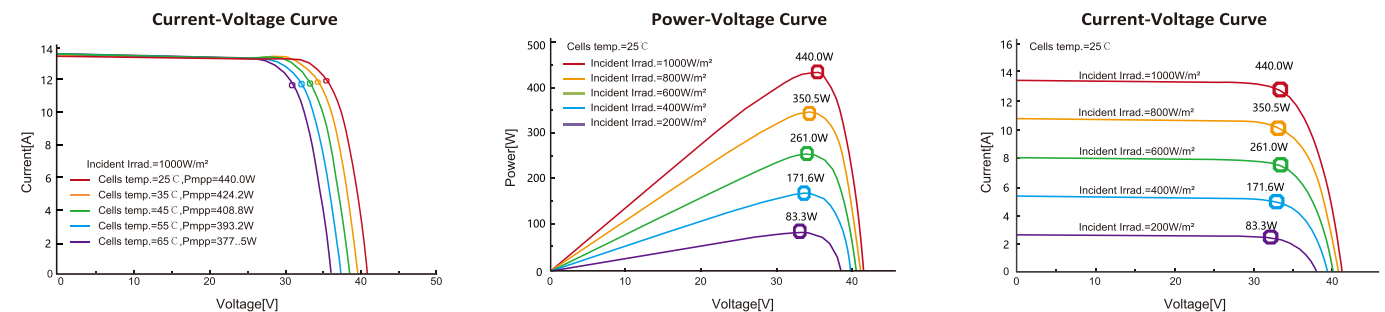
TEMPERATURE RATINGS

Norminal Operating Cell Temperature(NOCT)	45±2 C
Temperature Coefficient of Isc	+0.045%/C
Temperature Coefficient of Voc	-0.275%/C
Temperature Coefficient of Pmax	-0.350%/C

ADDITIONAL VALUE



I-V CURVE(STM-525-550/144-S3)



IEC61215, IEC61730, IEC61701, IEC62716, IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System



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The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Schutten Solar. reserves the right to make necessary adjustment to the information described herein at any time without further notice. Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.