Excellent Manufacturing,Ultimate LVTOPSUN.

MONO CRYSTALLINE MODULE

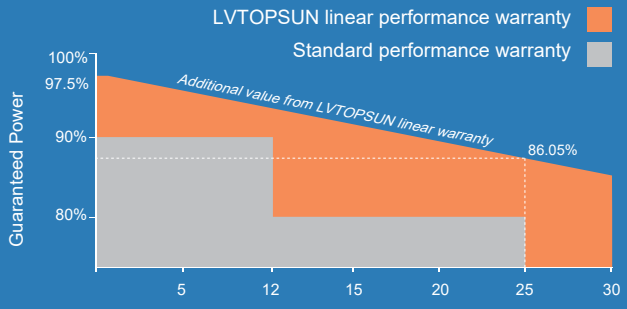
LVTS-144M(182MM)

525-550 Watt



Linear Performance Warranty

12 Years Product Warranty · 25 Years Linear Power Warranty



KEY FEATURES

IP68 junction box, connector

IP68 junction box and connector have a high degree of waterproof, effectively resist the harsh environment;

PID Resistant

Excellent PID resistance at 96 hours (85℃/85%) test,and also can be improved to meet higher standards for the particularly harsh environment;

MBB half-cut cell technology

New circuit design, lower internal current, lower Rs loss

Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature

Lower LCOE

2% more power generation, lower LCOE

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ELECTRICAL SPECIFICATIONS

Module Type	LVTS144M-525		LVTS144M-530		LVTS144M-535		LVTS144M-540		LVTS144M-545		LVTS144M-550	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated output (Pmp/Wp)	525	391.6	530	395.4	535	398.9	540	402.7	545	406.6	550	410.5
Maximum Power Voltage(Vmpp/V)	40.6	37.8	40.8	38.0	41.0	38.2	41.2	38.4	41.4	38.6	41.6	38.8
Maximum Power Current(Impp/A)	12.94	10.35	13.00	10.40	13.05	10.44	13.11	10.49	13.17	10.54	13.23	10.58
Open Circuit Voltage(Voc/V)	48.8	45.7	49.0	45.9	49.2	46.1	49.4	46.3	49.6	46.4	49.8	46.6
Short Circuit Current(Isc/A)	13.71	11.05	13.76	11.09	13.81	11.13	13.87	11.18	13.93	11.23	13.99	11.28
Module efficiency(%)	20.2%		20.4%		20.6%		20.8%		21.0%		21.2%	
Power Tolerance (W)	0~+5		0~+5		0~+5		0~+5		0~+5		0~+5	

Standard Test Condition（STC）: Irradiance 1000W/m², Cell Tempera ture 25℃, AM1.5

Nominal Module Operating Temperature（NMOT): Irradiance 800W/m²,Ambient Temperature 20℃, AM1.5, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS

NOCT Temperature	43℃ ±2℃
Temprature Coefficient (Pmax)	-0.36%/℃
Temprature Coefficient (Voc)	-0.26%/℃
Temprature Coefficient (Isc)	0.043%/℃

MECHANICAL SPECIFICATIONS

Cell Type	MONO 182*182mm
No. of Cells	144 (6×24)
Dimension	2278*1134*35mm
Weight	28.6kg
Glass	3.2mm (0.13inches) , Tempered AR Glass
Frame	Anodized Aluminium Alloy (silver or black)
Junction Box	IP68,with Bypass Diodes
Output Cables	TUV,±length 300mm,4.0mm²
Connector type	MC4 Compatible

PACKING CONFIGURATIONS

Container	40′ HQ
Pieces Per Pallet	31
Pallets Per Container	20
Pieces Per Container	620

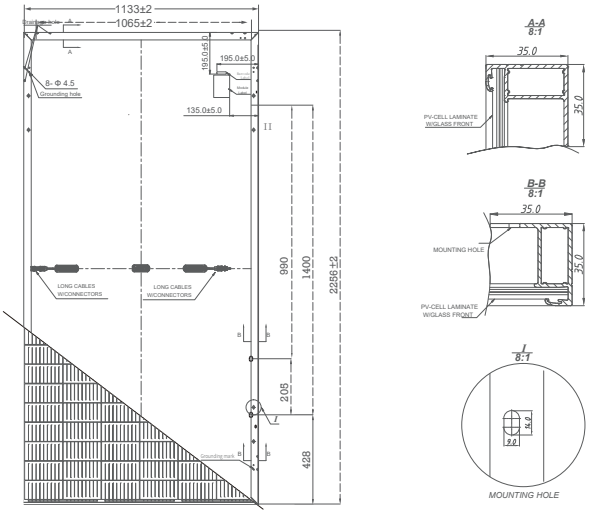
MAXIMUM RATINGS

Maximum System Voltage	1000V/1500V DC
Maximum Series Fuse	25A
Increased Snowload Acc.to Iec 61215	5400Pa
Operating Temperature	-40~+85℃
Number Of Bypass Diodes	3

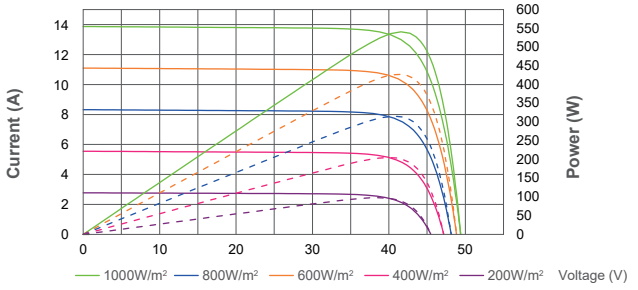
Product And Quality Certifications

ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007

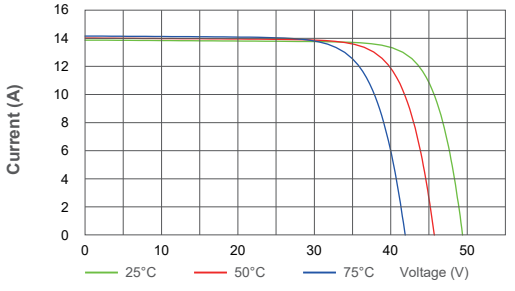
ENGINEERING DRAWINGS



CURVE & TEMPERATURE DEPENDENCE



Power voltage current curve at different temperature



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