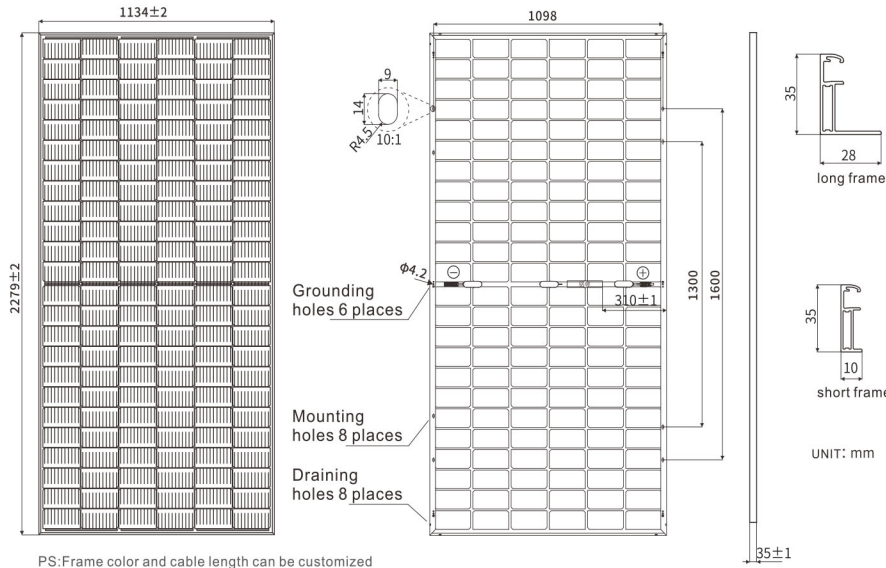


Mechanical Diagrams



Specifications

Cell	Mono
Weight	27.3kg±3%
Dimensions	2279±2mmX1134±2mmX35±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG (UL)
Solar Cells	144(6X24)
Junction Box	IP68/FT50XY, 3*bypass diode
Connector	RHC2
Cable Length (Including Connector)	300mm
Front Glass	3.2mm
Packaging	3 1pcs/Pallet, 620 pcs/40HQ

Electrical Parameters at STC

Type	MSD144M/525	MSD144M/530	MSD144M/535	MSD144M/540
Rated Maximum Power (Pmax)[W]	525	530	535	540
Open Circuit Voltage (Voc)[V]	49.15	49.30	49.45	49.55
Maximum Power Voltage (Vmp)[V]	41.15	41.31	41.47	41.62
Short Circuit Current (Isc)[A]	13.65	13.72	13.79	13.89
Maximum Power Current (Imp)[A]	12.76	12.83	12.90	12.98
Module Efficiency[%]	20.3	20.5	20.6	20.8
Power Tolerance	0~+5W			
Temperature Coefficient of Isc (α _{Isc})	+0.046%/°C			
Temperature Coefficient of Voc (β _{Voc})	-0.276%/°C			
Temperature Coefficient of Pmax (γ _{Pmp})	-0.350%/°C			
STC	Irradiance 1000W/m ² , Cell temperature 25°C, AM1.5			

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

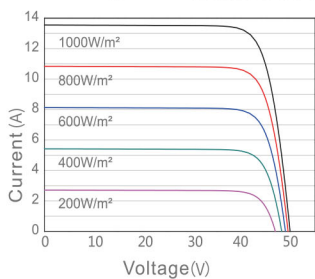
Electrical Parameters at NOCT (Suppose 10% Ratio of Solar Irradiance)

Type	MSD144M/525	MSD144M/530	MSD144M/535	MSD144M/540	Operating Conditions	
Rated Maximum Power (Pmax)[W]	562	567	572	578	Maximum System Voltage	1500V DC
Open Circuit Voltage (Voc)[V]	49.54	49.67	49.80	49.93	Operating Temperature	-40°C~+85°C
Maximum Power Voltage (Vmp)[V]	41.53	41.77	41.99	42.24	Maximum Series Fuse	25A
Short Circuit Current (Isc)[A]	14.34	14.39	14.45	14.50	Maximum Static Load, Front Maximum Static Load, Back	5400Pa (112 lb/ft ²) 2400Pa (50 lb/ft ²)
Maximum Power Current (Imp)[A]	13.52	13.58	13.63	13.69	NOCT	45±2°C
					Backside Ratio	70%±10%
					Fireproof Performance	UL Type 29

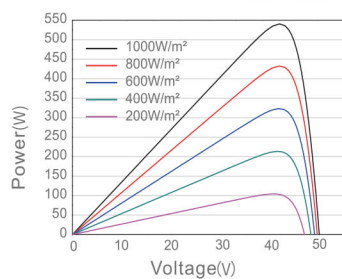
rate of the back of solar panel = peak power of STC / nominal power

Characteristics

Current Voltage Curve MSD144M/540



Power Voltage Curve MSD144M/540



Current Voltage Curve MSD144M/540

