

Mono 550W

Mono Half-cut single/Double Glass Module

INTRODUCTION

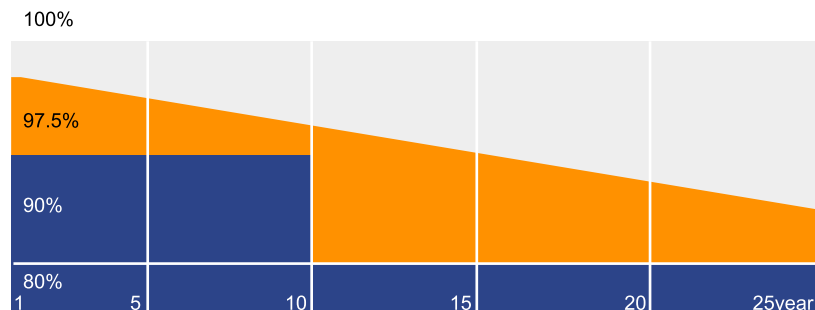
MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

- 10-year warranty for material and technology
- 25-year linear power output warranty



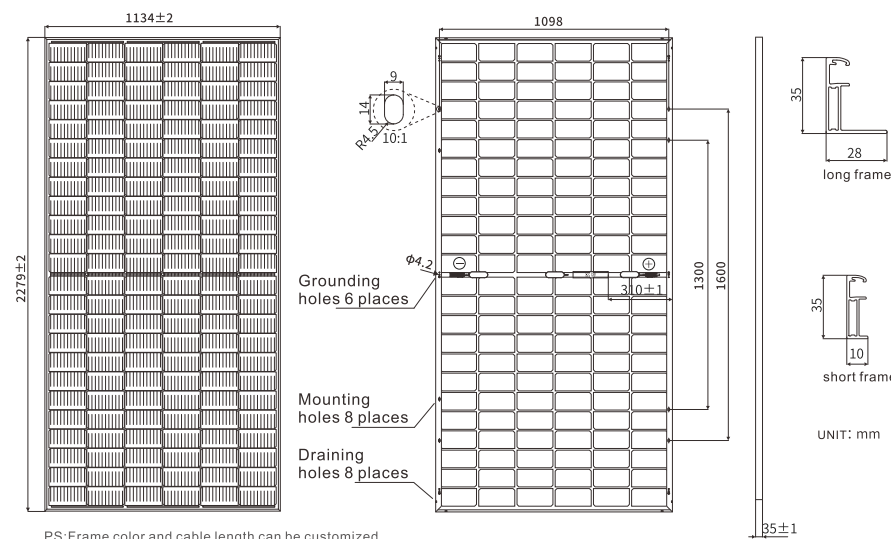
■ Linear Power Warranty ■ Industry Warranty

Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001:Environmental management systems
- ISO45001:2018Occupational health and safety management systems



Mechanical Diagrams



Specifications

Cell	Mono
Weight	27.3kg $\pm$ 3%
Dimensions	2279 $\pm$ 2mmX1134 $\pm$ 2mmX35 $\pm$ 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	2.0mm
Packaging	3 1pcs/Pallet, 620 pcs/40HQ

Electrical Parameters at STC

Type	MSD144/550
Rated Maximum Power (Pmax)[W]	540
Open Circuit Voltage (Voc)[V]	49.55
Maximum Power Voltage (Vmp)[V]	41.62
Short Circuit Current (Isc)[A]	13.89
Maximum Power Current (Imp)[A]	12.98
Module Efficiency[%]	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.

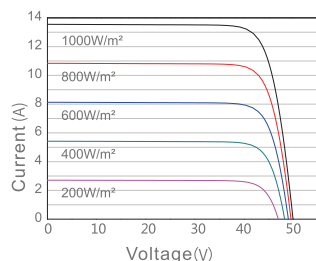
Electrical Parameters at NOCT (Suppose 10% Ratio of Solar Irradiance)

Type	MSD144/550	Maximum System Voltage	1500V DC
Rated Maximum Power (Pmax)[W]	578	Operating Temperature	-40°C~+85°C
Open Circuit Voltage (Voc)[V]	49.93	Maximum Series Fuse	25A
Maximum Power Voltage (Vmp)[V]	42.24	Maximum Static Load, Front	5400Pa (112 lb/ft ²)
Short Circuit Current (Isc)[A]	14.50	Maximum Static Load, Back	2400Pa (50 lb/ft ²)
Maximum Power Current (Imp)[A]	13.69	NOCT	45 $\pm$ 2°C
		Backside Ratio	70% $\pm$ 10%
		Fireproof Performance	UL Type 29

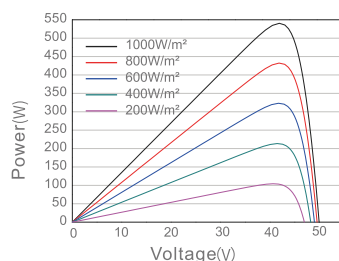
rate of the back of solar panel = peak power of STC / nominal power

Characteristics

Current Voltage Curve MSD144/550



Power Voltage Curve MSD144/550



Current Voltage Curve MSD144/550

