

# Solar Panel

545-590W

## Specification Of P Type Module

Type	ML545SM-144	ML550SM-144
Maximum Power (Pmax W)	545	550
Open-circuit Voltage (Voc V)	49.75	49.95
Maximum Power Voltage (Vmp V)	41.80	41.97
Short-circuit Current (Isc A)	13.97	14.05
Maximum Power Current (Imp A)	13.05	13.11
Module Efficiency STC (%)	21.10%	21.30%
Power Tolerance	0 ~ +3%	
Temperature coefficients of Isc	+ 0.050%/°C	
Temperature coefficients of Voc	- 0.265%/°C	
Temperature coefficients of Pmax	- 0.34%/°C	
Standard Testing Condition	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C ± 2, AM 1.5G	

## Specification Of N Type Module

Type	ML570SM-144	ML580SM-144	ML590SM-144
Maximum Power (Pmax W)	570	580	590
Maximum Power (Pmax W)	51.99	52.31	52.63
Maximum Power (Pmax W)	42.99	43.35	43.71
Maximum Power (Pmax W)	13.89	14.01	14.13
Maximum Power Current (Imp A)	13.26	13.38	13.5
Module Efficiency STC (%)	22.10%	22.50%	22.80%
Power Tolerance	0 ~ +3%		
Temperature coefficients of Isc	+ 0.045%/°C		
Temperature coefficients of Voc	- 0.25%/°C		
Temperature coefficients of Pmax	- 0.29%/°C		
Standard Testing Condition	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C ± 2, AM 1.5G		

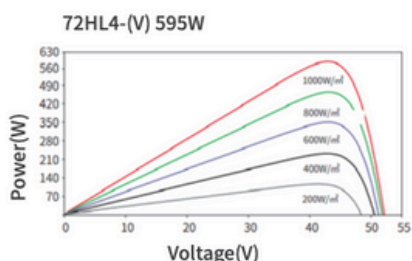
## Product Specifications

Module Type	P-type/N-type monocrystalline silicon cells
Dimension	2279*1134*30mm
Weight	27.3 kg
Number of Cells	144 PCS (6*24)
Packing	31 PCS/PALLET

## Application Conditions

Maximum System Voltage	DC 1500V
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Application Class	Class A

### Power-Voltage Curve



### Current-Voltage Curve

