

Electrical Parameters

Model Type	ESM-580T	ESM-585T	ESM-590T	ESM-595T	ESM-600T
	STC	STC	STC	STC	ST C
Maximum Power (Pmax)	580	585	590	595	600
Open Circuit Voltage (Voc)	51.00	51.14	51.26	51.38	51.46
Short Circuit Current (Isc)	14.39	14.46	14.47	14.54	14.61
Maximum Power Voltage (Vmp)	42.19	42.27	42.36	42.45	42.54
Maximum Power Current (Imp)	13.75	13.84	13.94	14.02	14.10
Module Efficiency - η_m (%)	22.44	22.64	22.83	22.90	22.95
Operational Temperature	-40°C~+85°C				
Maximum System Voltage	1500VDC				
Maximum Series Fuse Rating	25A				
Power Tolerance	0~+3%				
Temperature Coefficient of Pmax	-0.310%/°C				
Temperature Coefficient of Voc	-0.260%/°C				
Temperature Coefficient of Isc	+0.046%/°C				
Nominal Operating Cell Temperature	45±2°C				
Safety Class	Class II				
Max Load (Front/back)	5400Mpa/2400Mpa				

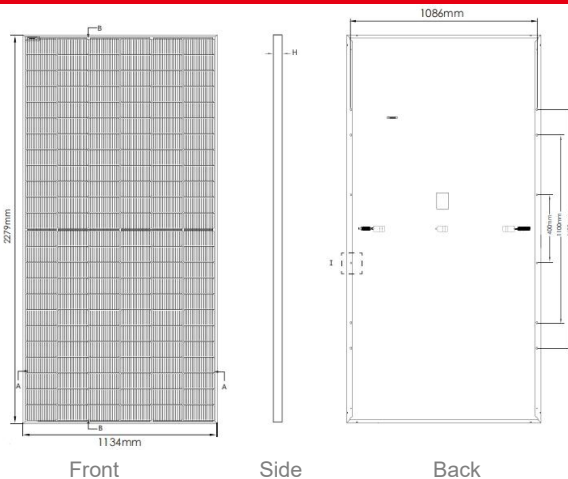
STC: Irradiance 1000W/m²
NOCT: Irradiance 800W/m²

Cell temperature 25°C
Ambient temperature 20°C

Atmospheric quality =1.5
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Wind speed 1m/S

Mechanical Diagrams



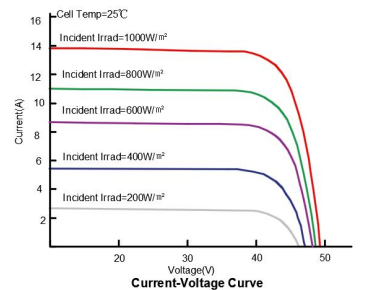
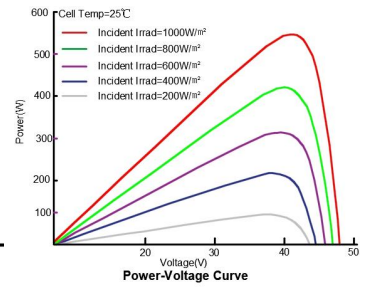
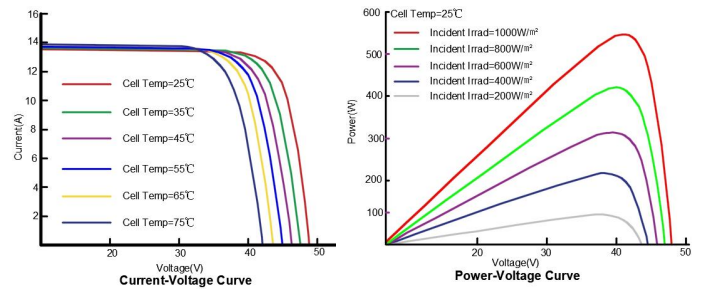
Length: ± 2mm
Width: ± 2mm
Thickness: ± 1mm
Hole pitch: ± 2mm

Packing Details:

36pcs/pallet, Pallet size: 2314×1130×1245mm

40GP: 20 pallets/40HQ, 720pcs/40'HQ

Curve



Specification

Cell type	N type mono crystalline 182mm
Half-cell quantity	144pcs (6×24)
Dimension	2279×1134×30mm
Weight	28kg±3%
Glass	3.2mm, tempered and AR coated
Frame	White Aluminum Alloy
Junction Box	IP68
Cable	400mm (can be customized)