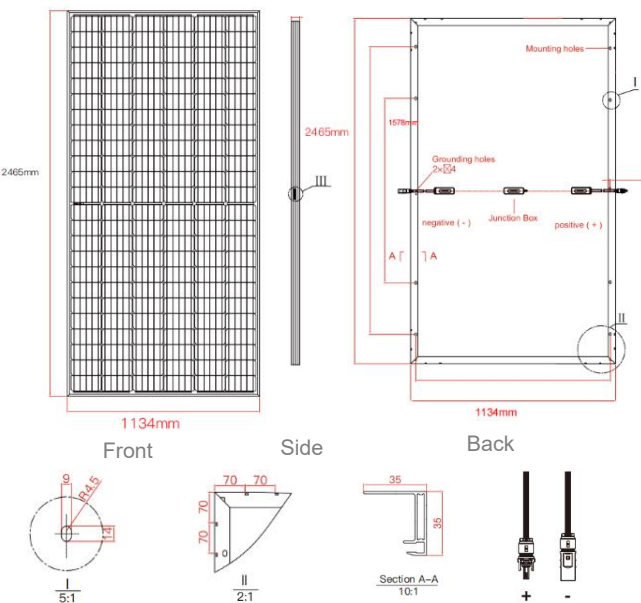


# Electrical Parameters

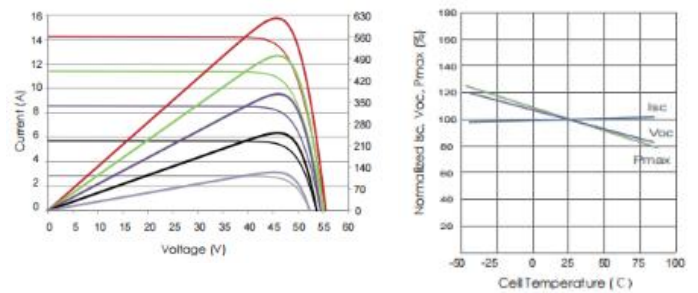
Model Type	ESM-630T	ESM-635T	ESM-640T	ESM-645T	ESM-650T
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	630	635	640	645	650
Open Circuit Voltage (Voc)	55.93	56.08	56.23	56.38	56.53
Short Circuit Current (Isc)	14.37	14.44	14.51	14.58	14.65
Maximum Power Voltage (Vmp)	46.06	46.18	46.28	46.38	46.48
Maximum Power Current (Imp)	13.67	13.75	13.83	13.91	13.98
Module Efficiency - $\eta_m$ (%)	22.53	23.48	23.67	23.85	24.04
Operational Temperature	-40°C ~ +85°C				
Maximum System Voltage	1500VDC				
Maximum Series Fuse Rating	25A				
Power Tolerance	0 ~ +3%				
Temperature Coefficient of Pmax	-0.360%/°C				
Temperature Coefficient of Voc	-0.260%/°C				
Temperature Coefficient of Isc	+0.04%/°C				
Nominal Operating Cell Temperature	45 ± 2°C				
Safety Class	Class II				
Max Load (Front/back)	5400Mpa/2400Mpa				

STC: Irradiance 1000W/m<sup>2</sup> Cell temperature 25°C Atmospheric quality = 1.5  
 NOCT: Irradiance 800W/m<sup>2</sup> Ambient temperature 20°C Atmospheric quality = 1.5 Wind speed 1m/S

## Mechanical Diagrams



## Curve



## Packing Details:

36pcs/pallet

40GP: 16 pallets/HQ, 572pcs/40'HQ

## Specification

Cell type	N type mono crystalline 182mm
Half-cell quantity	156pcs (26×6)
Dimension	2465×1134×30mm
Weight	31kg±3%
Glass	3.2mm
Frame	Silver Anodized Aluminum Alloy
Junction Box	IP68
Cable	400mm (can be customized)