

CSG-PV  
(525W-550W)

# Technology Parameters

## Electricity Parameters at STC

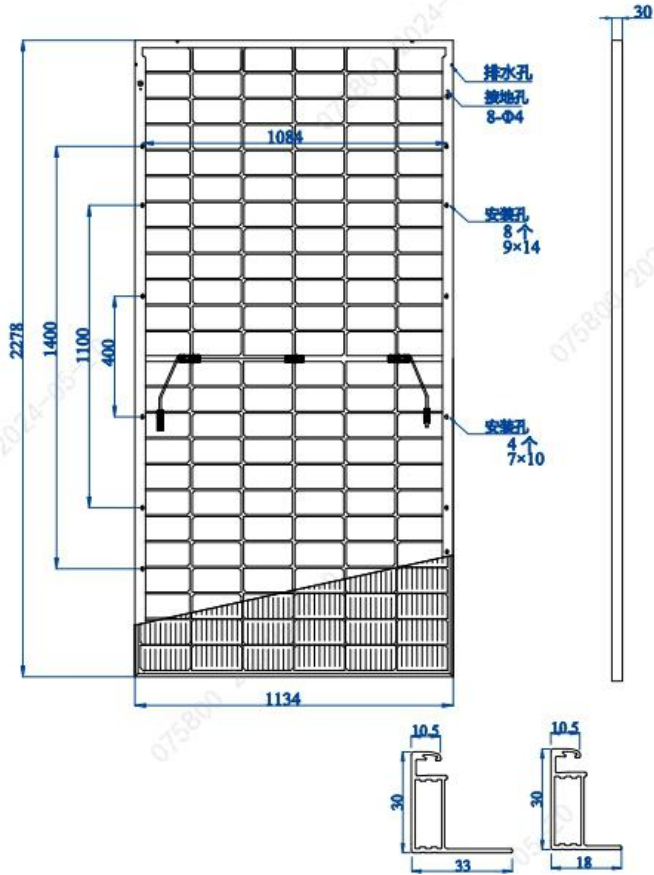
Cell	Perc cell 182×91mm 144 pcs (6×12×2) —— 10 BB					
Max power(W)	525	530	535	540	545	550
Power Tolerance	0 ~ +6W					
Voltage at Pmax (Vmp)	40.8	40.9	41.0	41.1	41.19	41.32
Current at Pmax (Imp)	12.87	12.96	13.05	13.14	13.23	13.32
Open circuit voltage (Voc)	49.42	49.9	50.54	50.67	50.79	50.92
Short circuit current (Isc)	13.63	13.73	13.83	13.74	13.85	13.95
Max system voltage (VDC)	1500					
Module efficiency (%)	20.32	20.51	20.71	20.90	21.09	21.29
Number of bypass diodes	3					
Max series fuse(A)	25A					
Temp coefficient of Pmax	-0.350%/°C					
Temp coefficient of Pmax	-0.284%/°C					
Temp coefficient of Isc	0.050%/°C					
Operating temp of Cell	45±2 °C					

## Mechanical data

Cable type	Φ=4mm <sup>2</sup> , L=300±5mm (length can be customized)
Connector	Compatible with MC4 plug
Size A×B×C	2278×1134×30mm
Weight	33kg
Drain holes(pcs)	8
Structure	Double glass: tempered glass, thickness 2.0mm+2.0mm Encapsulation film: EVA/POE
Junction box	IP68
Frame	Anodized aluminum alloy
<b>Qualification test parameters</b>	
Dielectric insulation voltage	Max 6000VDC
Operating temp	-40°C ~ +85°C
Max static load	5400Pa
Hail stone impact	Diameter 25mm, speed 23m/s
Fire rating	Class A

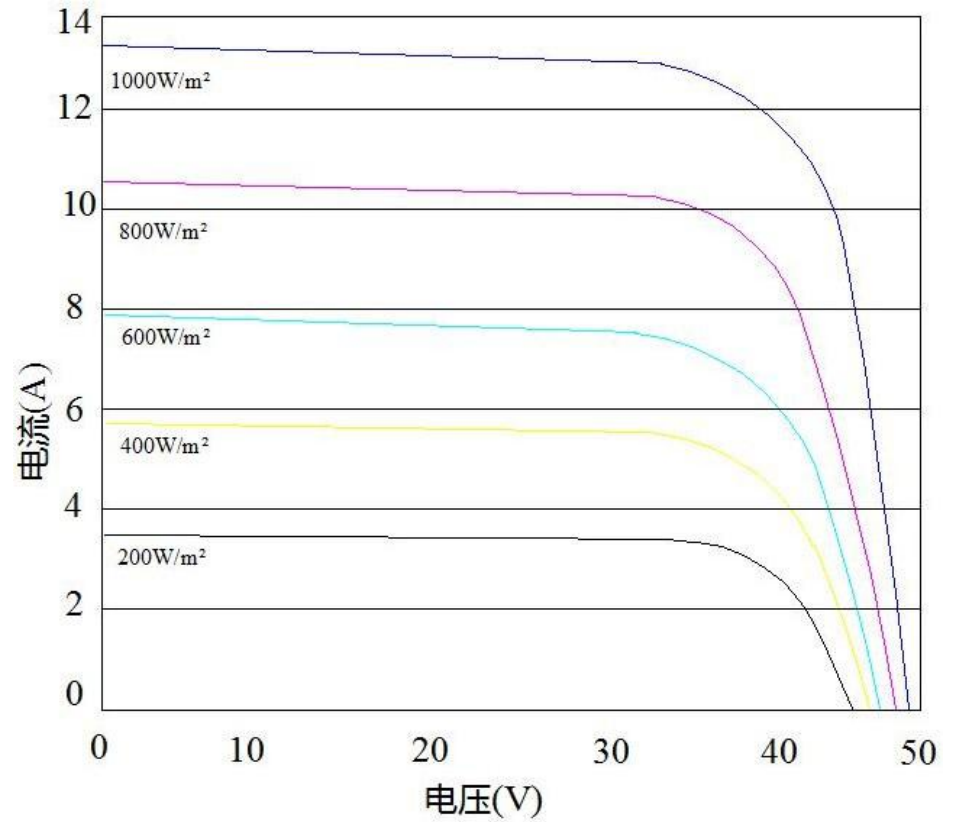
STC: 1000W/m<sup>2</sup>, 1.5AM, Cell Temperature 25 °C

# Product Drawing (Unit: mm)



# I-V

Current-voltage curves for CSG 540W PV module under varying light intensities



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