

## altE 150 Watt 12V Mono Solar Panel ALTS-150W-12M

### *Mechanical Characteristics*

Type of cell	Mono-Crystalline 210x105mm
Cells Array and Number	3x11(33pcs)
Dimensions	1230x670x30mm
Weight	10.5Kg
Front Glass	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Encapsulation	Glass/EVA/Cells/EVA/TPT
Relative Humidity	0 to 100%
Resistance	227g steel ball fall down from 1m height and 60m/s wind
Snow load parameters	2400Pa

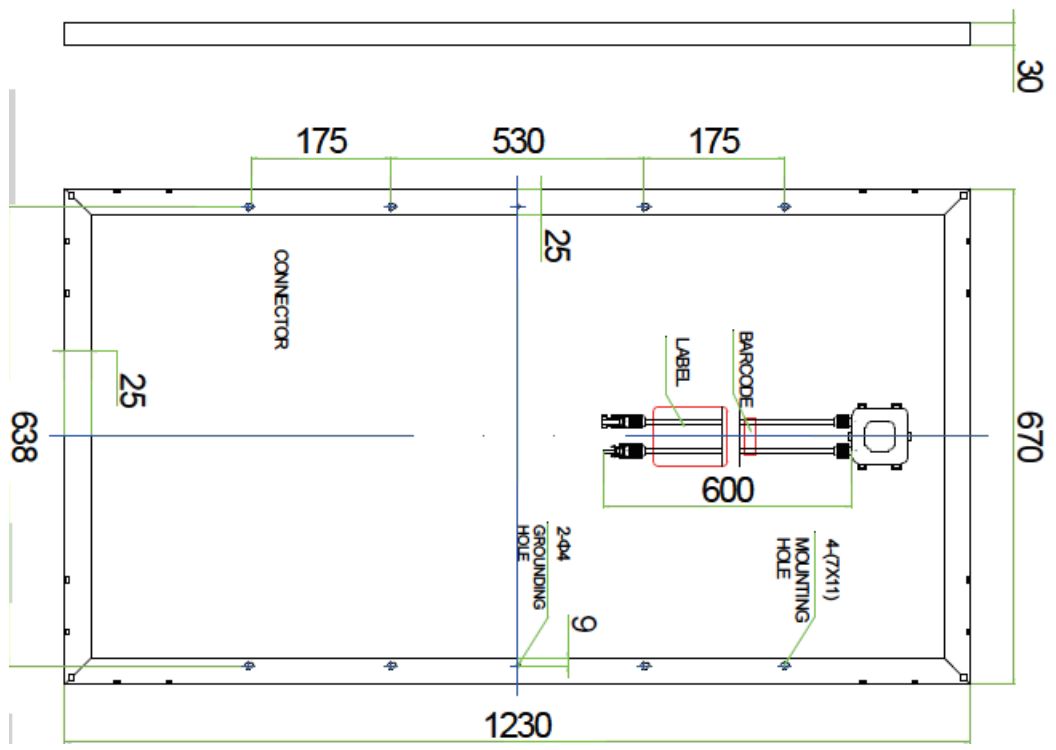
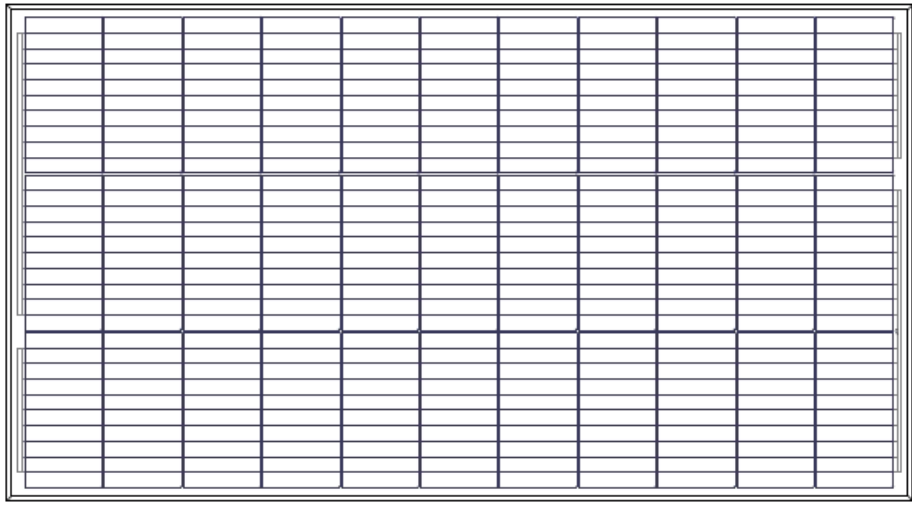
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**ALTS-150W-12M**  
**(155W – Not Available)**

*Electrical Characteristics*

Characteristics	150	155
Open-Circuit Voltage(Voc/V)	21.30	21.38
Short-Circuit Current(Isc/A)	8.90	9.06
Optimum Circuit Voltage(Vmp/V)	18.15	18.32
Optimum Circuit Current(Imp/A)	8.27	8.46
Maximum Power at STC(Pmax/W)	150	155
Module Efficiency	18.42%	18.65%
Operating Temperature	-40℃ to +85℃	
Maximum System Voltage	1000V DC	
Output Power Tolerance	0~+5W	
STC: Irradiance 1000W/m <sup>2</sup> , Module temperature 25 ℃, AM=1.5		

\* power testing tolerance: ±3%

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*Temperature Coefficients*

Nominal Operating Cell Temperature(NOCT)	45°C ± 2°C
Temperature Coefficient of Pmax	-(0.370 ± 0.05)%/K
Temperature Coefficient of Voc	-(0.280 ± 0.01)%/K
Temperature Coefficient of Isc	+(0.048 ± 0.005)%/K
Maximum Series Fuse/current rating	15A