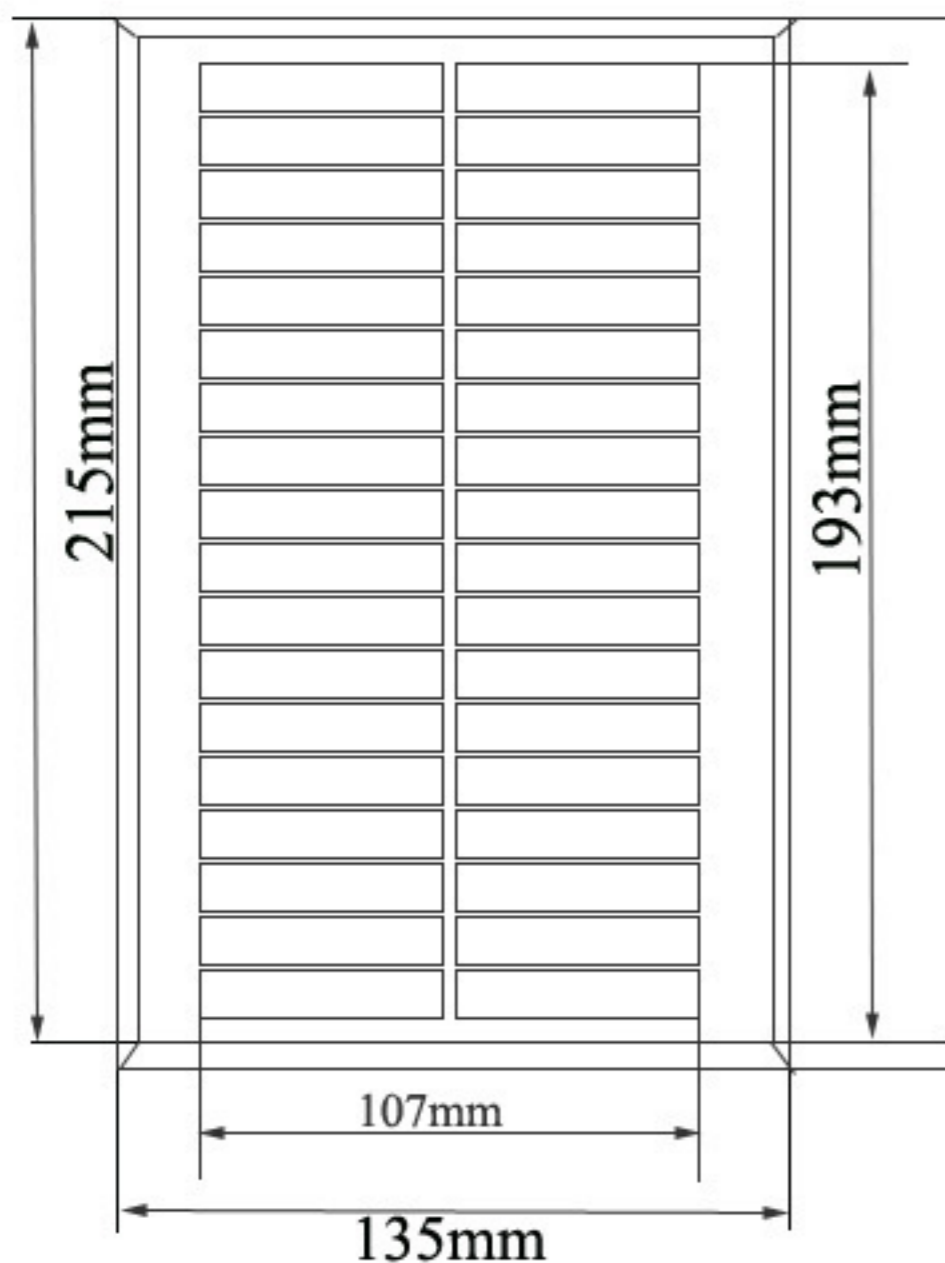
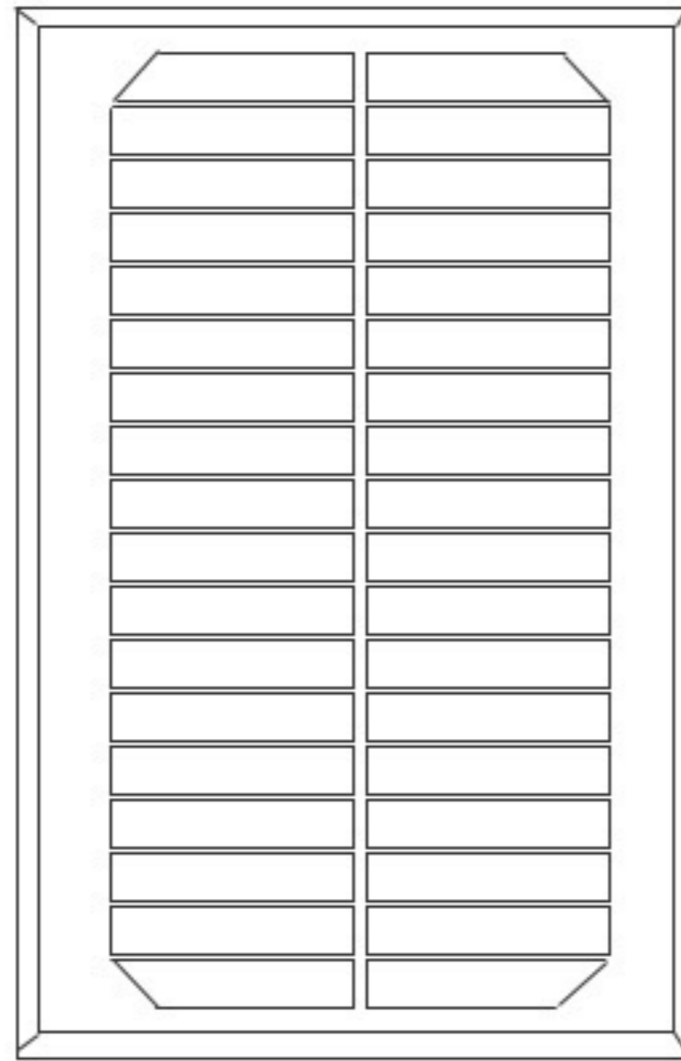


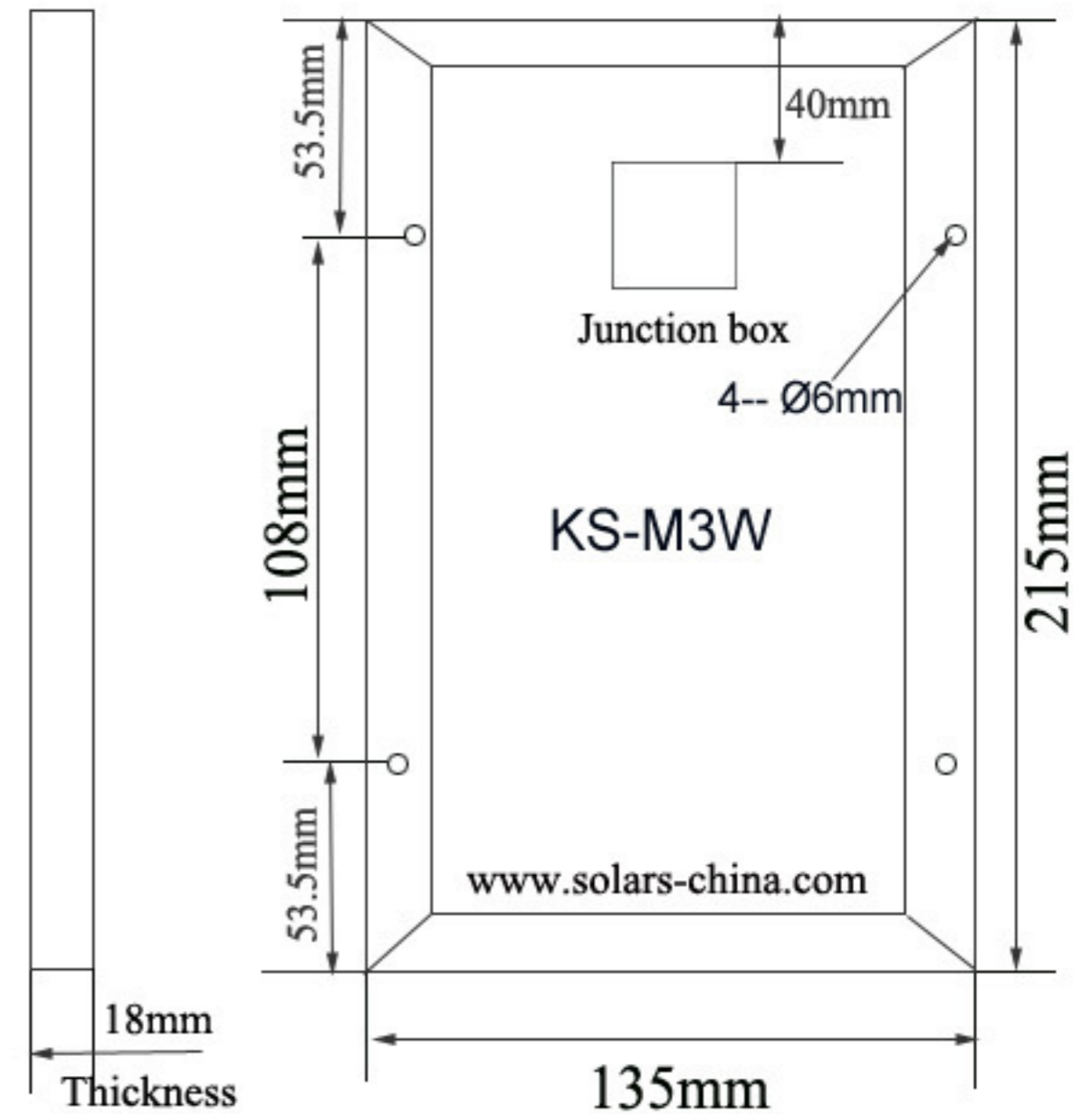
3W MONOCRYSTALLINE SOLAR MODULE



FRONT VIEW(1)



FRONT VIEW(2)



SIDE VIEW

BACK VIEW

ELECTRICAL CHARACTERISTICS

Power	3W	Power Tolerance	±5%
Operating Voltage	18V	Open Circuit Voltage	21.6V
Operating Current	166mA	Short Circuit Current	181mA
Type of solar cell	Monocrystalline Silicon Solar Cell		
Purpose	Charger for 12V batteries		
STC: Irradiance 1000W/m ² , Module temperature: 25°C, AM=1.5			

TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temperature (NOCT): 45°C±2°C	
Temp.Coefficient of Isc	(0.045±0.01)%/°C
Temp.Coefficient of Voc	-(0.34±0.01)/°C
Temp.Coefficient of Power	-(0.47±0.05)%/°C

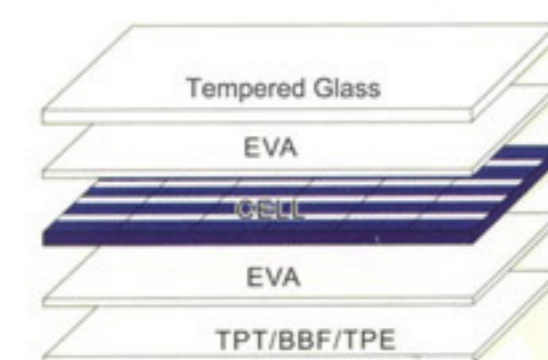
TESTED OPERATING CONDITIONS

Max load	50psf 245kg/m ² (2400)pascals
Hailstone impact	25mm(1inch) at 23m/s(52mph)
Operating Temperature	-40° C to + 85° C

MECHANICAL SPECIFICATIONS

Dmensions	215×135×18mm
Encapsulation	Glass/EVA/Cells/EVA/TPT
Front Glass	Tempered Glass, thickness: 3.2mm
Frame	Anodized aluminum alloy (Silver)
Output lead wire	Without solder wire, with junction box
Dmension Tolerance: ±0.2mm Efficiency: ≥18.6%	

FIGURE OF STRUCTURE



WARRANTIES

Power output more than 90% for 10years
 Power output more than 80% for 25years
 Working life 25years

THE TECHNICAL FILES PROVIDED BY CHINA SOLAR LTD

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