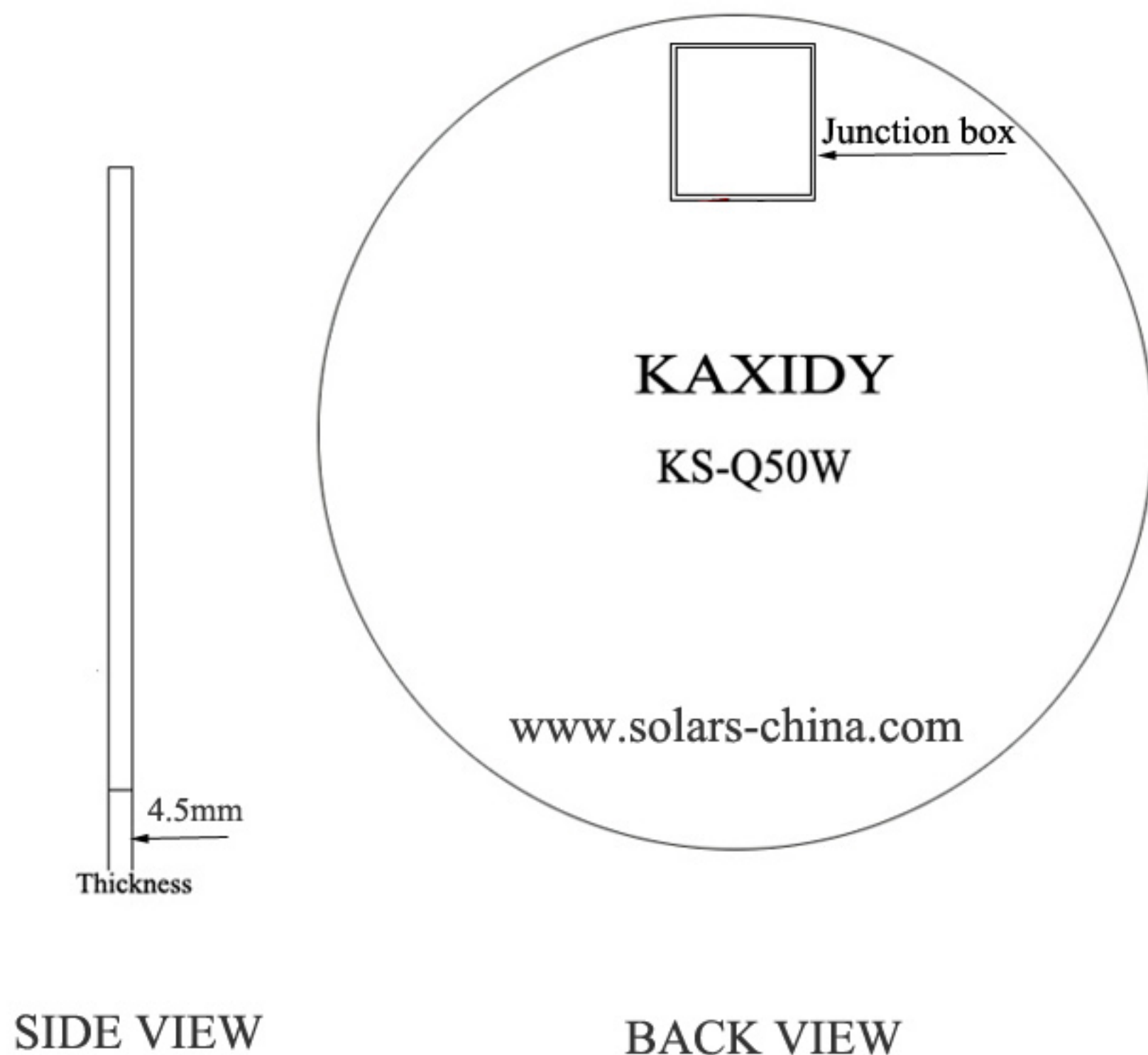
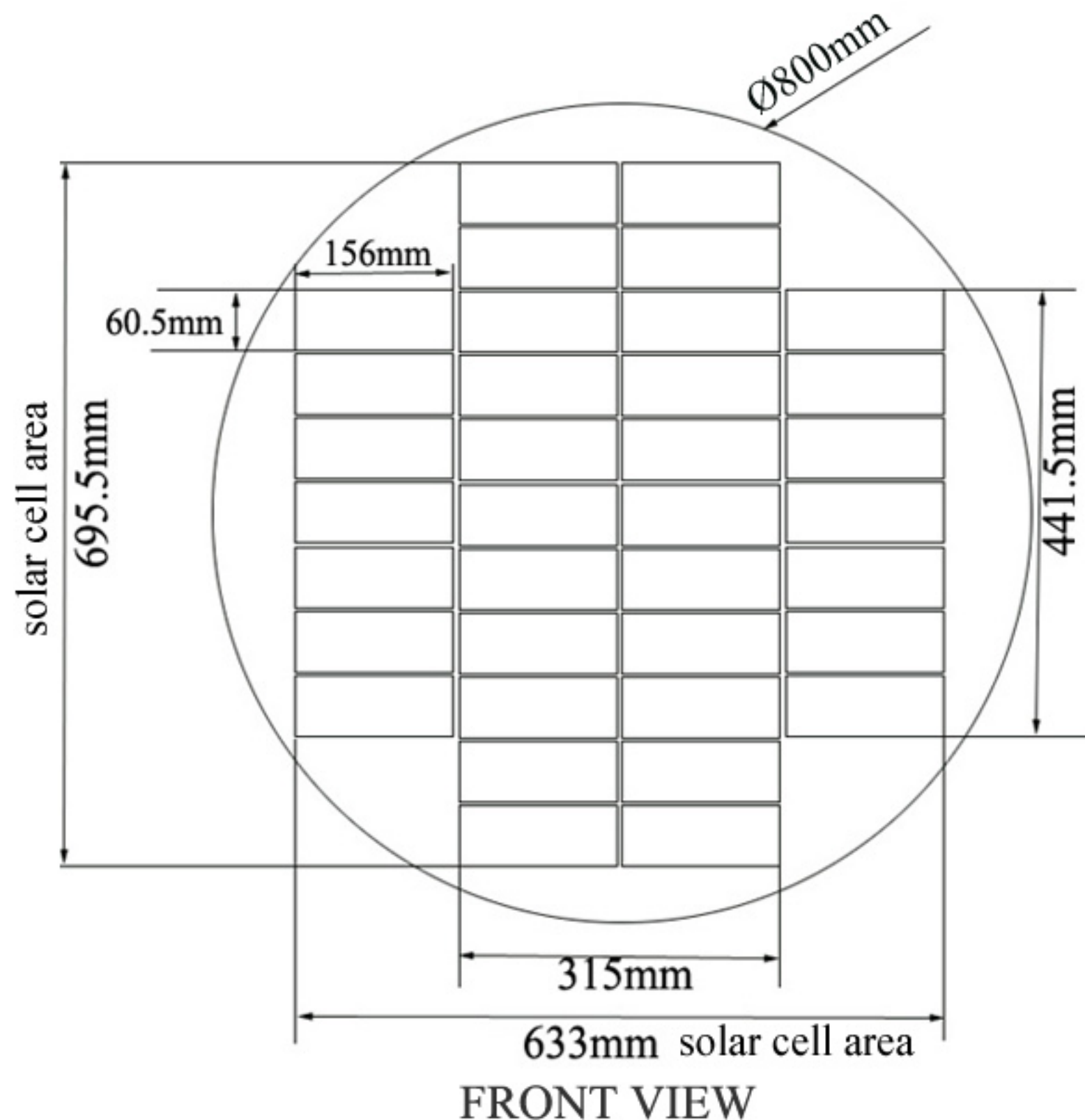


50W CIRCULAR SOLAR PANEL



ELECTRICAL CHARACTERISTICS

Power	50W		
Operating Voltage	18V	Open Circuit Voltage	21.6V
Operating Current	2.77A	Short Circuit Current	3.02A
Type of solar cell	Monocrystalline Silicon Solar Cell		
Power Tolerance	±5%		
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

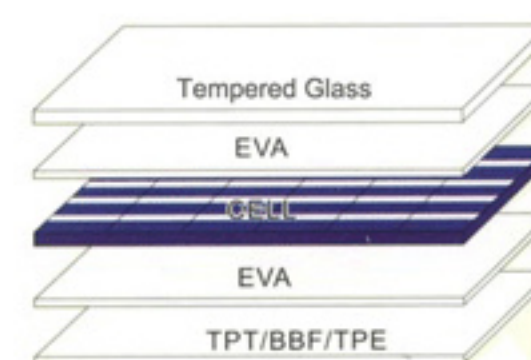
TESTED OPERATING CONDITIONS

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

Dimensions	Ø800mm, Thickness:4.5mm
Encapsulation	Glass/EVA/Cells/EVA/TPT
Front Glass	Tempered Glass, thickness: 3.2mm
Frame	Without frame, With junction box
Efficiency	≥18%
Dimension Tolerance ±0.2mm	

FIGURE OF STRUCTURE



WARRANTIES

Power output more than 90% for 10years
Power output more than 80% for 20years

THE TECHNICAL FILES PROVIDED BY CHINA SOLAR LTD

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