

50 watt High Efficiency Photovoltaic Module

Item No: KS-M50W

Electrical Characteristics

Cell Type	Monocrystalline solar module
Norminal Power	Pmax=50W
Open Circuit Voltage	Voc=21.6V
Short Circuit Current	Isc=3.16A
Voltage at Pmax	Vm=18V
Current at Pmax	Im=2.78A
Standard Test Conditions(STC):Irradiance:1000W/m ² ,25℃, AM 1.5	
Power tolerance: ±5%	

Reliability Statistics

Operating Temperature Range	-40℃ to +90℃
Storage Humidity	< 90%
Mechanical Load Test	5400Pa
Resistances	227g stell ball fall down from 1m height and 60m/s wind
Surface Maximum Load Capacity	60m/s (200kg/sq.m)
Outstanding performance under low light irradiance	

Performance Irradiance Curve

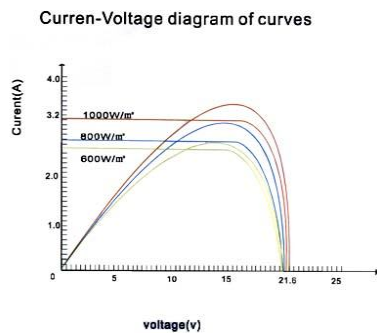
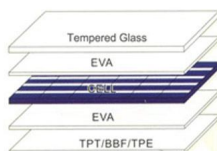
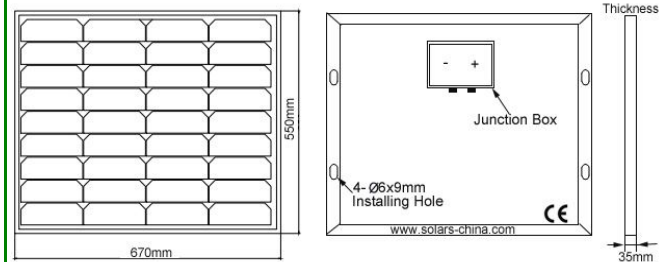


Figure of Cell Structure

Structure of Tempered Glass Lamination



External View



Nominal 12 V DC for standard output

Mechanical Specifications

Dimensions(H*W*T) as above	670x550x35mm(±0.5mm)
Solar Cell	Monocrystalline solar cell 156x156mm
Cell Efficiency (%)	19%
Front Cover	Tempered Glass, 3.2mm thickness
Back Cover	White polyester
Frame	Anodized aluminum alloy. Color: Silver
Junciton Box	IP65 Rated, black, without cables
Weight	5.2Kg
Limited Warranty	2 Years Workmanship

Temperature coefficient

NOCT	45℃±2℃
Current temperature coefficient	0.06±0.01%/K
Voltage temperature coefficient	-(78±10)MV/K
Power Temperature coefficient	-(0.5±0.05)%/K
NOCT: Nominal Operation Cell Temperature	

Property For System Design

Series Fuse Rating	8A
Maximum System Voltage	700V
Module Life	90% output for 10 years, 80% for 25 years

THE TECHNICAL FILES PROVIDED BY CHINA SOLAR LTD

Design and specifications are subject to change without notice

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