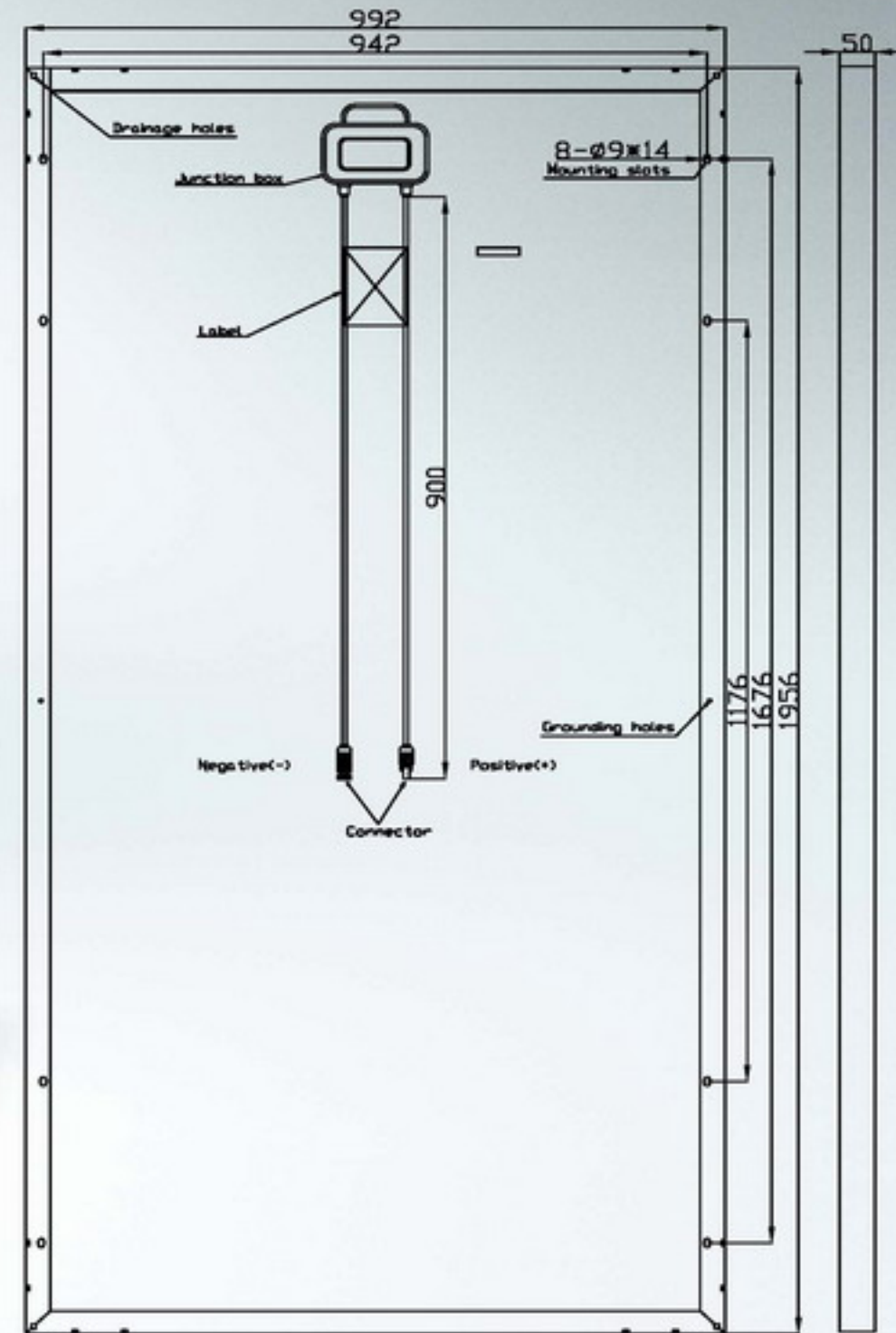


PRODUCTS

Monocrystalline
Silicon Solar Panel

ZC156M/72



Absolute Ratings

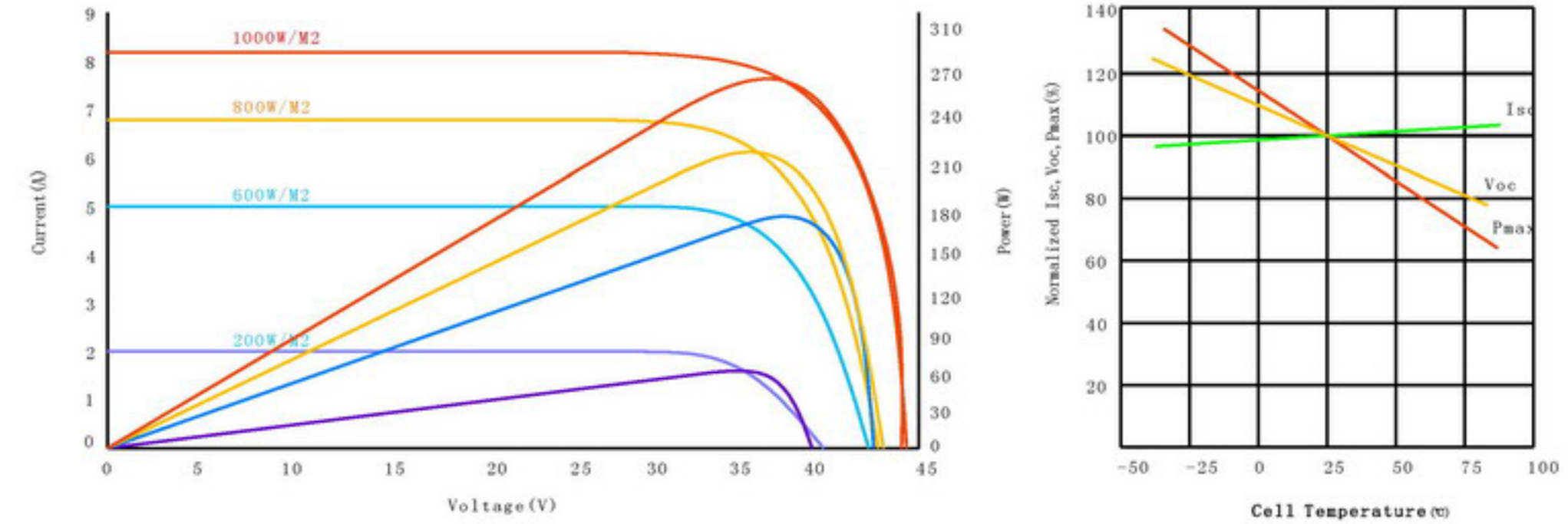
Dielectric Insulation Voltage	3000V
Operating temperature (°C)	-40°C +85°C
Storage Temperature(°C)	-40°C +85°C

Performance

Warranty	90% power output over 10 years 80% power output over 25 years Free from defects in materials and workmanship for 10 years
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Qualification Test

Temperature cycling range	-40°C to +85°C for 200 cycles
Damp heat test	-85°C to +85°C relative humidity for 1000h
Front & rear static load test(eg.wind)	2400Pa
Front load test(eg.snow)	5400Pa
Impact Resistance Hail Impact Test	227g steel ball fall down from 1m height



Electrical Characteristics

Item	ZCS270M	ZCS275M	ZCS280M	ZCS285M	ZCS290M	ZCS295M	ZCS300M
Maximum Power (Pmax)	270	275	280	285	290	295	300
Maximum Power voltage(Vm)	35.7	36.0	36.4	36.7	36.8	37.10	37.30
Maximum Power current(I _m)	7.56	7.64	7.69	7.77	7.86	7.95	8.04
Open circuit voltage(Voc)	43.3	43.60	43.85	44.20	44.5	44.7	44.9
Short circuit current(I _{sc})	8.16	8.23	8.32	8.39	8.47	8.52	8.59
Module efficiency	13.92	14.17	14.43	14.68	14.95	15.2	15.46
Maximum series fuse	15A						
No. of diode	6						
Power Tolerance	0~3%						
Type of junction box	IP65						
Maximum system voltage	1000V						
Temperature coefficient of I _{sc}	+0.042%/°C						
Temperature coefficient of Voc	-0.393%/°C						
Temperature coefficient of power	-0.52%/°C						
NOCT(Nominal operating cell temperature)	47°C ±2°C						
Standard test conditions	STC: AM1.5, 1000 W/m², Module Temperature 25°C						

Mechanical Characteristics

Cable type ,Diameter and Length	4mm² ,TUV certified,900mm
Quantity of cells	72 pcs (6x12)
Cell Type	156×156 Mono Solar Cell
Size of module (Length and Width)	1956mm x 992mm
Weight	24 Kg
No. of Draining Holes in Frame	20
Frame (type, material and thickness)	Anodized Alu. alloy frame, 50 mm thickness
Glass, Type and Thickness	High transmission, Low Iron, Tempered Glass 3.2mm