

50W/18V Monocrystalline silicon solar module specifications

Module number	AI-50M-36
Peak power / Pm(W)	50±5%
Open circuit voltage / Voc(V)	21.6
Max. power voltage / Vmp(V)	18.0
Max. power current / Imp(A)	2.78
Short circuit current / Isc(A)	3.00
Solar cells origin	Taiwan
Solar cells efficiency	over 19.0%
Grade of solar cells	A grade
Dimensions(L*W*T) / Weight(kgs)	700*535*30mm5kgs
Solar cell / Size of solar cells /solar cells arrangement	monocrystalline silicon /156*52mm/4*9, 36-cell in series
Front cover(material/thickness)	Low-iron tempered glass / 3.2mm
Encapsulation(material)	Ethylene Vinyl Acetate(EVA)
Solar backsheet(material/color)	TPT / White-color(black color is optional)
Frame(material/color)	Anodized aluminium alloy / Silver
Junction box protection degree	≥IP65
Cable /Cable connector Model	900mm solar cable with MC4 compatible connectors
Standard Testing Conditions	Irradiance:1000W/m2, Cell temperature:25℃, AM:1.5(air mass).
Max. static load, front(e. g.: snow/wind)	5400Pa
Max. static load, back(e. g.: wind)	2400Pa
Max. hailstone impact (diameter/velocity)	25mm; 23m/s
Max. series fuse rating (A)	1pcs of 10A by-pass diodes.
Max. system voltage (V)	600V DC
Application Class	Class A
Operating temperature range	-40℃- +85℃
NOCT	45±2℃
Power temperature coefficient	-0.43%/℃
Current temperature coefficient	0.08%/℃
Voltage temperature coefficient	-0.37%/℃
Lifespan	25 years
Warranty	Power output warranty: 10 years over 90%, 25 years over 80%;
Product Certifications / Standards	CE, IEC61215
Other Certifications	ISO9001:2008, RoHS

