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50W/18V Monocrystalline silicon solar module specifications

Module number	JGN-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)	3.11
Solar cells origin	Taiwan
Solar cells efficiency	around 18.0%
Grade of solar cells	A grade
Dimensions(L*W*T) / Weight(kgs)	765*535*35mm/5.0kgs
Solar cell / No. of cells and connections	monocrystalline silicon / 36-cell in series
Front cover(material/thickness)	Low-iron tempered glass / 3.2mm
Encapsulation(material)	Ethylene Vinyl Acetate(EVA)
Frame(material/color)	Anodized aluminium alloy / Silver
Junction box protection degree	≥IP65
Cable /Cable connector Model	Optional
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)	8A
Max. system voltage (V)	1000V DC
Application Class	Class A
NOCT	45±2℃
Operating temperature range	-40℃- +85℃
Power temperature coefficient	-0.45%/℃
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

