

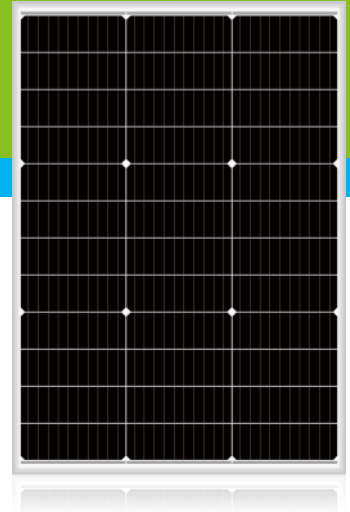


Monocrystalline Solar PV Modules

IEC61215/61730 Quality/ ISO Certified Company

Model No. **FDS090-12M10**

90W



Temperature Coefficients

Nominal Operating Cell Temperature	NOCT	°C	45 +/-2
Voltage Temperature Coefficient (Voc)	α	%/°C	-0.32
Current Temperature Coefficient (Isc)	β	%/°C	0.055
Power Temperature Coefficient (Pmpp)	γ	%/°C	-0.39

Mechanical Data

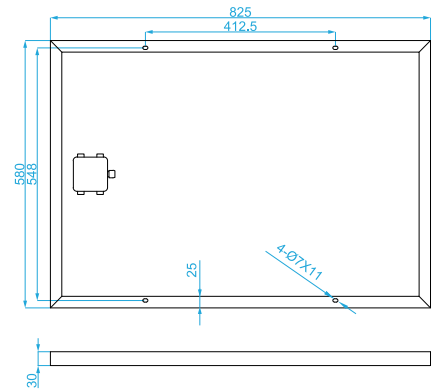
Solar Cell	Monocrystalline, 182*63mm
Arrangement	36Cells (3*12)
Front Glass	3.2mm Tempered
Frame	Anodized Aluminium
Max. Static Snow Load, Front	5400Pa
Max. Static Wind Load, Back	2400Pa
Junction Box	IP65
Cables & Connectors	As Per Requirement

Electrical Data

STC: Irradiance 1000 W/m²(module temperature 25°C AM1.5)

Module Type	FDS090-12M10		
Nominal Peak Power	Pmax	Wp	90
Minimum Power Tolerance	ΔP_{max}	%	-/+3
Max. Power Voltage	Vmp	V	20.2
Max. Power Current	Imp	A	4.46
Open-circuit Voltage	Voc	V	24.0
Short-circuit Current	Isc	A	4.84
Module Efficiency	η_m	%	18.8
Operating Temperature		°C	-40 to +85
Max Series Fuse Rating		A	5
Max. System voltage	DC	V	1,000
Weight		KGS	5.1
Dimension		MM	825*580*30

Dimensions unit : mm



Materials & Workmanship Warranty



90% Power Output Warranty



80% Power Output Warranty

Warranty : Solar Modules with 25 years warranty

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