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High-Tech.Development Zone, Dongying City,
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Standard Product Specification (72 Cell Mono Crystalline 125×125mm Solar Photovoltaic Module, 1000V System Voltage)	Product Name	Crystalline Solar Photovoltaic Module
	Document Name	Product Specification: FUDA 160M to 185M
	Document Number	FUDA-PS-M-S0001
	Revision Number & Date	A, September 2010

Typical Electrical Characteristics

Model Number	UOM	FUDA-160M	FUDA-165M	FUDA-170M	FUDA-175M	FUDA-180M	FUDA-185M
Rated Maximum Power-Pmax	Wp	160	165	170	175	180	185
Power Tolerance	%	±3	±3	±3	±3	±3	±3
Maximum Power Voltage-Vmp	V	34.5	35.2	35.8	36.6	37.2	37.8
Maximum Power Current-Imp	A	4.65	4.70	4.75	4.80	4.85	4.90
Open Circuit Voltage-Voc	V	43.0	43.4	43.8	44.2	44.6	45.0
Short Circuit Current-Isc	A	5.15	5.20	5.25	5.30	5.35	5.40
Maximum System Voltage-VDC	V	1000					
Encapsulated Solar Cell Efficiency-ηc	%	15.0	15.4	15.9	16.4	16.8	17.3
Module Efficiency-ηm	%	12.5	12.9	13.3	13.7	14.1	14.5
Solar Cell and Configuration		72 cells (125mm x 125mm) in a 6x12 matrix connected in series					
Solar Cell Technology & Size	mm	Mono Crystalline 125*125					
Cable Type, Diameter		4mm {12AWG), TÜV Certified					
Type of Connector		IP67,Multi-Contact Type IV					
Junction Box		IP65, 1000VDC, TUV Certified					
Number of Bypass Diodes & Type		3 Nos, Schottky By-pass diodes					
Maximum Series Fuse Rating	A	9					
Temperature coefficient of Power	%/ °C	- 0.45					
Temperature coefficient of Voc	%/ °C	- 0.35					
Temperature coefficient of Isc	%/ °C	0.05					
Nominal Operating Cell Temperature-NOCT	°C	45±2					
Standard Test Conditions	STC	STC:AM=1.5, 1000W/m ² , Cells Temperature 25°C					
Operating Temperature	°C	-40~+85					
Product Certifications		IEC 61215, IEC 61730 & CE					

Mechanical & Packaging Characteristics

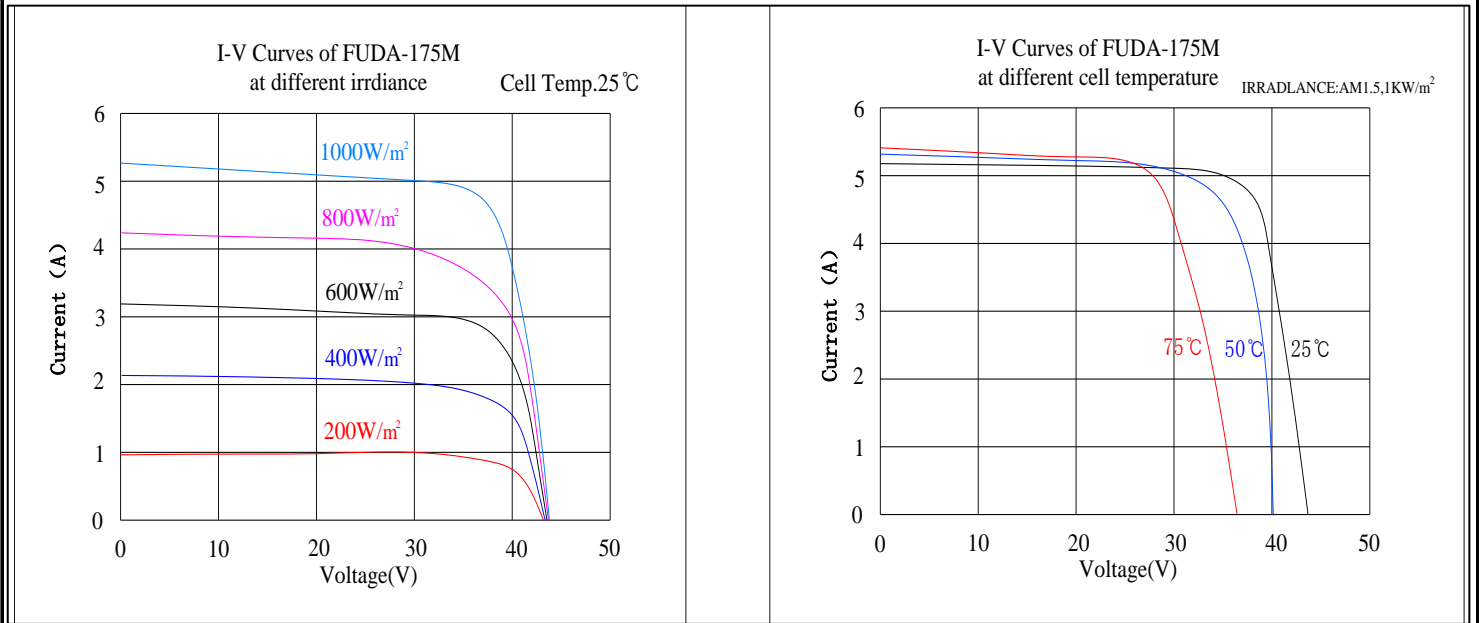
Dimension A*B*C	mm	1580*808*50
Installation Hole Dimension E*F	mm	948*764
Cable Length G	mm	1000
Weight	Kg	15.8
Number of Draining Holes in the Frame		12
Construction		Superstrate: High transmission 3.2mm tempered low iron glass; Substrate: White Back Sheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminum alloy type 6063T5; Color: silver
Packing Configuration and Quantity per Pallet		40 pcs per pallet
Container Loading Capacity		560pcs per 40ft Container

Prepared by: _____ **Approved by :** _____

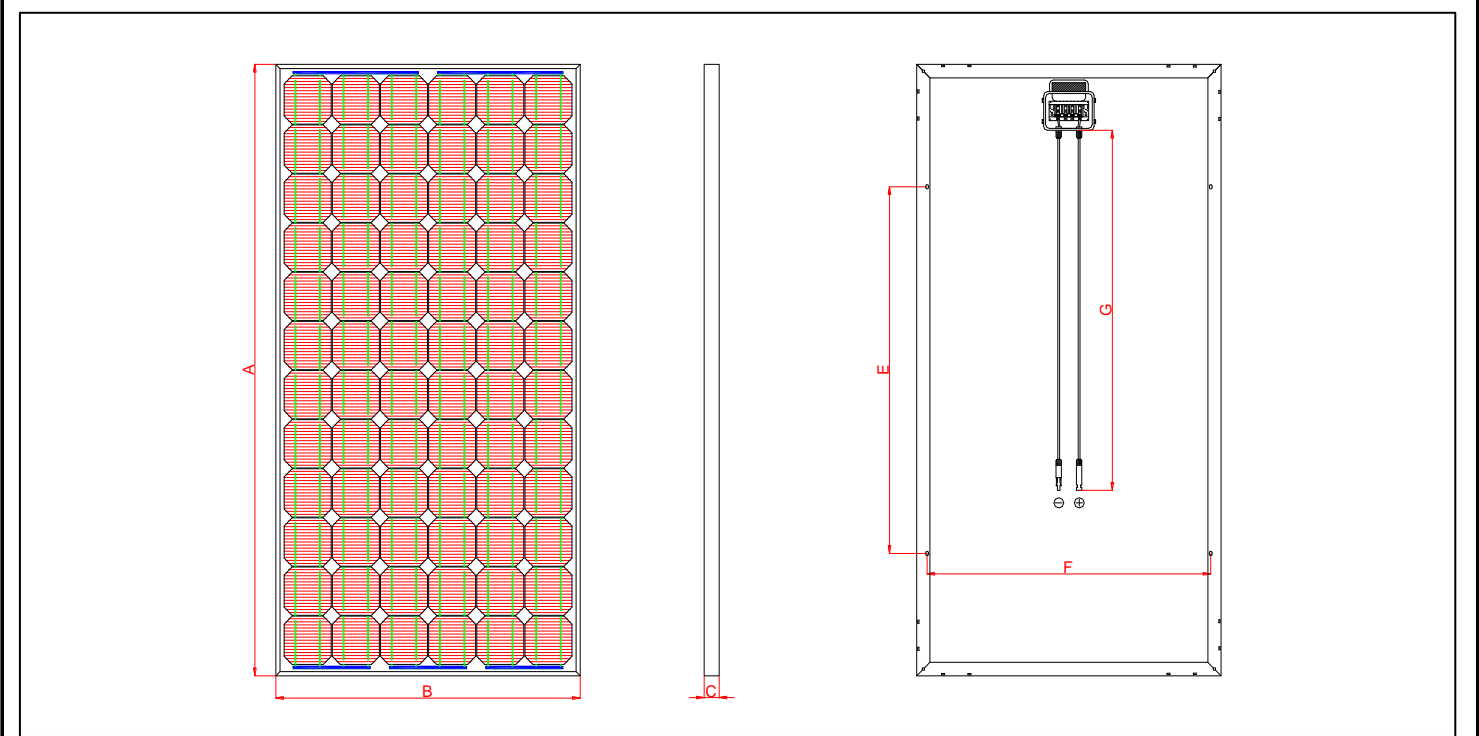
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I-V Characteristics at different Irradiances & Temperatures



Dimensional Characteristics



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Approved by :