



Dong Ying FUDA Solar Power Co.,LTD
High-Tech.Development Zone, Dongying City,
Shandong Province 257000, P. R. China

Standard Product Specification

(60 Cell Mono Crystalline 156×156mm Solar Photovoltaic Module, 1000VDC System Voltage)

Product Name Crystalline Solar Photovoltaic Module

Document Name Product Specification :FUDA-210M to 235M

Document Number FUDA-PS-M-S0002

Revision No & Date A, September 2010

Typical Electrical Characteristics

Model Number	UOM	FUDA-210M	FUDA-220M	FUDA-230M	FUDA-235M
Rated Maximum Power-Pmax	Wp	210	220	230	235
Power Tolerance	%	±3	±3	±3	±3
Maximum Power Voltage-Vmp	V	29.2	29.8	30.3	30.7
Maximum Power Current-Imp	A	7.20	7.40	7.60	7.66
Open Circuit Voltage-Voc	V	36.4	36.8	37.2	37.5
Short Circuit Current-Isc	A	7.80	8.00	8.20	8.30
Maximum System Voltage-VDC	V	1000			
Encapsulated Solar Cell Efficiency-ηc	%	14.8	15.5	16.2	16.4
Module Efficiency-ηm	%	12.8	13.4	14.1	14.4
Solar Cell and Configuration		60 cells(156x156mm) in a 6x10 matrix connected in series			
Solar Cell Type & Size	mm	Mono Crystalline 156*156			
Cable Type, Diameter		4mm {12AWG), TÜV Certified			
Type of Connector		IP67, Multi Contact Type-IV			
Junction Box		IP65, 1000VDC TUV & UL Certified			
Number of Bypass Diodes and Type		3Nos. Schottky By-pass diodes			
Maximum Series Fuse Rating	A	14			
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 Condition	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	1650*992*46
Installation Hole Dimension E*F	mm	990*941
Cable Length G	mm	1000
Weight	Kg	19.5
Number of Draining Holes in Frame		8
Construction		Superstrate: High transmission 3.20mm 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		20pcs per carton and one carton per pallet
Container Loading Capacity		520pcs per 40ft High Cubic Container; 120pcs per 20ft Container

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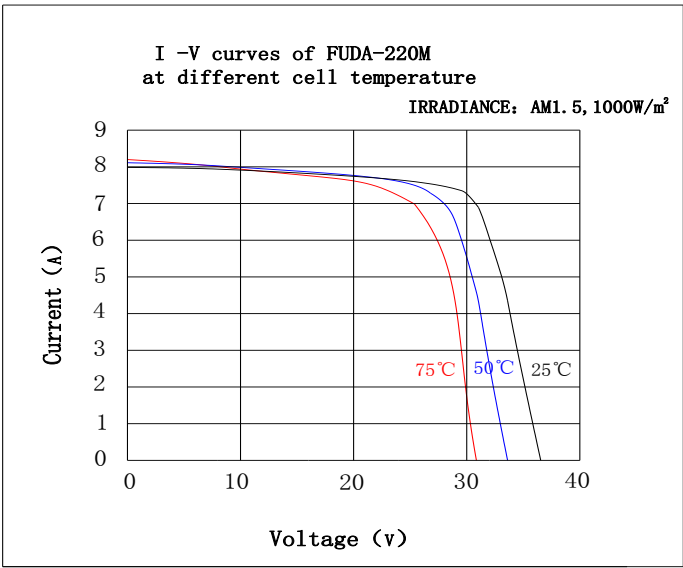
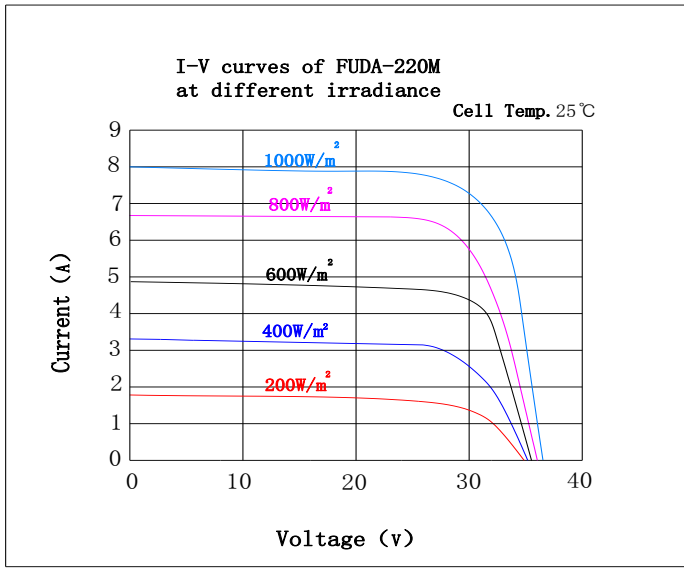
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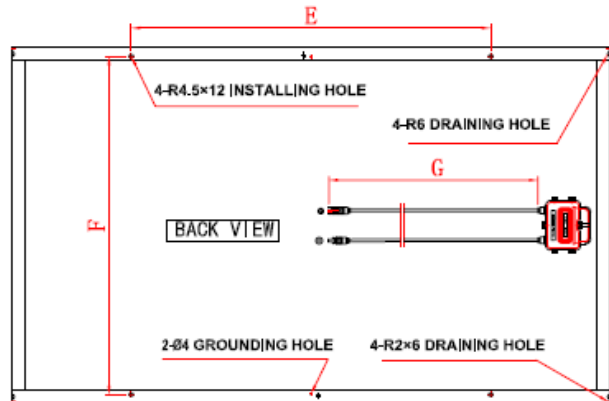
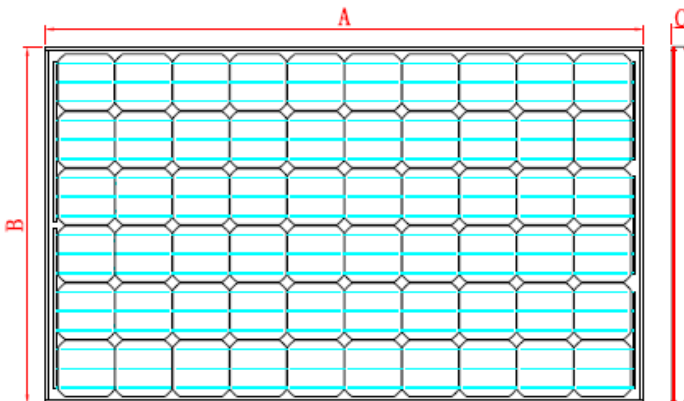
Prepared by:

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I-V Characteristics at different Irradiances & Temperatures



Dimensional Characteristics



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