



**Dong Ying FUDA Solar Power Co.,LTD**  
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<b>Standard Product Specification</b> (60 Cell Poly Crystalline 156×156mm Solar Photovoltaic Module, 1000VDC System Voltage)	<b>Product Name</b>	Crystalline Solar Photovoltaic Module
	<b>Document Name</b>	Product Specification :FUDA-200P to 220P
	<b>Document Number</b>	FUDA-PS-M-S0003
	<b>Revision No &amp; Date</b>	A, September 2010

**Typical Electrical Characteristics**

Model Number	UOM	FUDA-200P	FUDA-210P	FUDA-220P
Rated Maximum Power-Pmax	Wp	<b>200</b>	<b>210</b>	<b>220</b>
Power Tolerance	%	±3	±3	±3
Maximum Power Voltage-Vmp	V	28.6	29.2	29.8
Maximum Power Current-Imp	A	7.00	7.20	7.40
Open Circuit Voltage-Voc	V	36.0	36.4	36.8
Short Circuit Current-Isc	A	7.60	7.80	8.00
Maximum System Voltage-VDC	V	1000		
Encapsulated Solar Cell Efficiency-ηc	%	13.7	14.4	15.1
Module Efficiency-ηm	%	12.2	12.8	13.4
Solar Cell and Configuration		60 cells(156x156mm) in a 6x10 matrix connected in series		
Solar Cell Type & Size	mm	Poly 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 <sup>2</sup> , Cells Temperature 25°C		
Operating Temperature	°C	-40~+85		
Product Certifications		IEC 61215, IEC 61730 & CE		

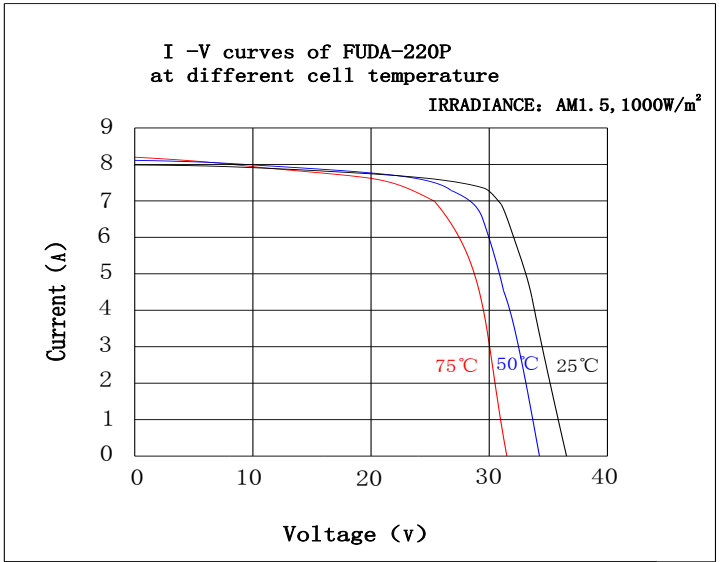
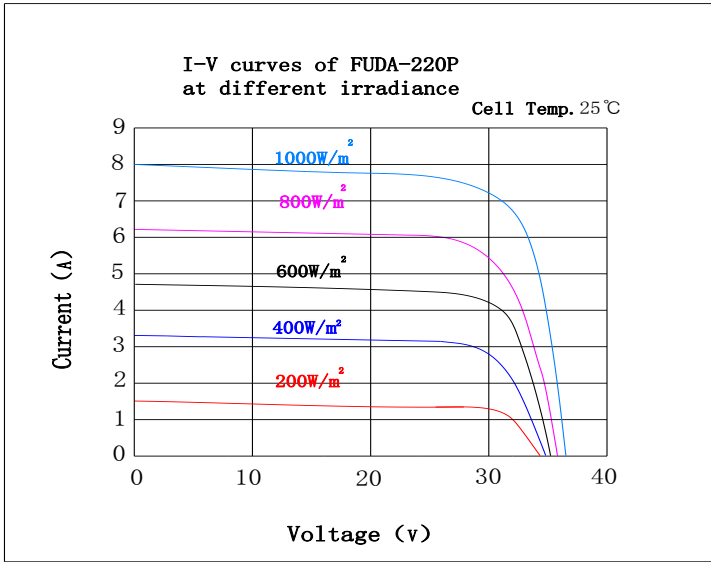
**Mechanical & Packaging Characteristics**

Dimension A*B*C	mm	1650*992*46
Installation Hole Dimension E*F	mm	950*941
Cable Length G	mm	1000
Weight	Kg	20
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

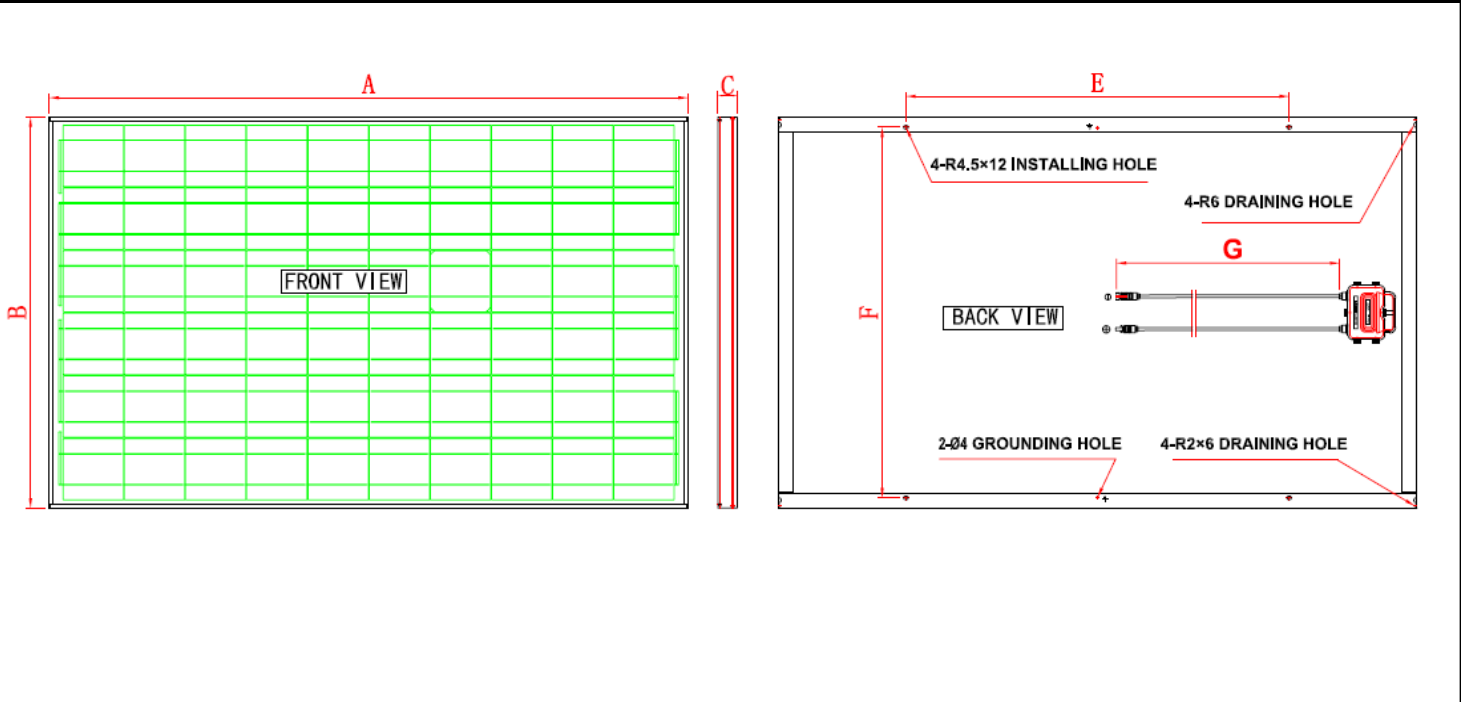
**Prepared by :** \_\_\_\_\_ **Approved by :** \_\_\_\_\_

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**I-V Characteristics at different Irradiances & Temperatures**



**Dimensional Characteristics**



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