



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

<b>Premium Product Specification</b> (72 Cell Poly Crystalline 156×156mm Solar Photovoltaic Module, 1000V System Voltage)	<b>Product Name</b>	Crystalline Solar Photovoltaic Module
	<b>Document Name</b>	Product Specification:FUDA-280P to 290P
	<b>Document Number</b>	FUDA-PS-M-S0005P
	<b>Revision Number &amp; Date</b>	A, September 2010

**Typical Electrical Characteristics**

Model Number	UOM	FUDA-280P	FUDA-285P	FUDA-290P
Rated Maximum Power-Pmax	Wp	280	285	290
Power Tolerance	%	±3	±3	±3
Maximum Power Voltage-Vmp	V	36.9	37.0	37.2
Maximum Power Current-Imp	A	7.60	7.70	7.80
Open Circuit Voltage-Voc	V	44.6	44.8	45.0
Short Circuit Current-Isc	A	8.20	8.30	8.40
Maximum System Voltage-VDC	V	1000		
Encapsulated Solar Cell Efficiency-ηc	%	16.0	16.3	16.6
Module Efficiency-ηm	%	14.4	14.6	14.9
Solar Cell and Configuration		72 cells (156mm x 156mm) in a 6x12 matrix connected in series		
Solar Cell Technology & Size	mm	Poly Crystalline 156*156		
Cable Type, Diameter		4mm (12AWG), TÜV Certified		
Type of Connector		Multi-Contact Type-IV		
Junction Box		IP65, 1000VDC, TUV & UL Certified		
Number of Bypass Diodes & Type		3 Nos, 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 Conditions	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	1965*992*50
Installation Hole Dimension E*F	mm	1177*941
Cable Length G	mm	1000
Weight	Kg	25
Number of Draining Holes in the Frame		8
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		19 pcs per carton and One carton per pallet
Container Loading Capacity		418pcs per 40ft High Cubic Container; 95pcs per 20ft Container

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



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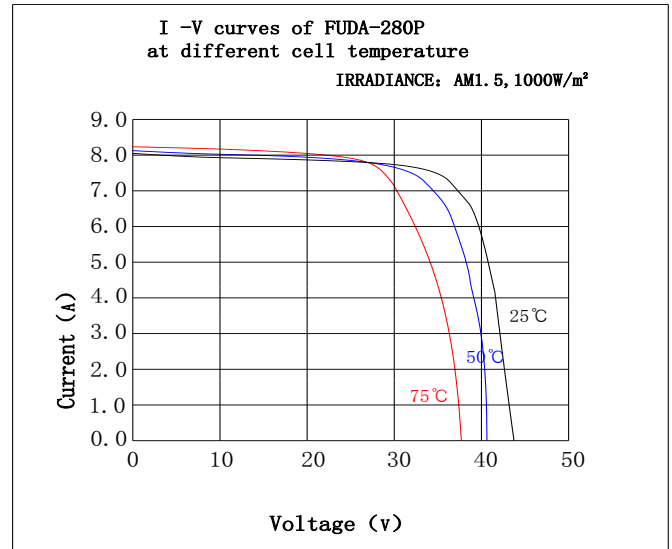
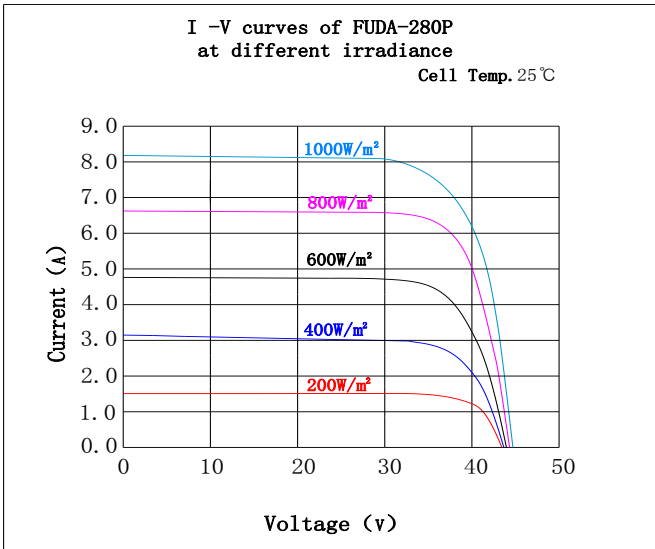
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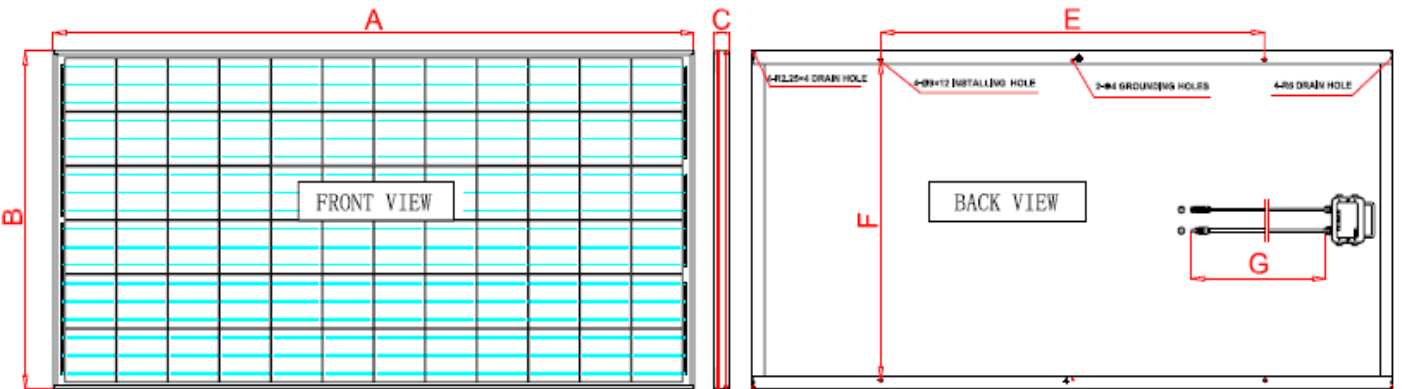
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**I-V Characteristics at different Irradiances & Temperatures**



**Dimensional Characteristics**



Prepared by :

Approved by :