



**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 Mono Crystalline 156×156mm Solar Photovoltaic Module, 1000V System Voltage)	<b>Product Name</b>	Crystalline Solar Photovoltaic Module
	<b>Document Name</b>	Product Specification:FUDA-285M to 300M
	<b>Document Number</b>	FUDA-PS-M-S0004P
	<b>Revision Number &amp; Date</b>	A, October 2008

### Typical Electrical Characteristics

Model Number	UOM	FUDA-285M	FUDA-290M	FUDA-295M	FUDA-300M
Rated Maximum Power-Pmax	Wp	285	290	295	300
Power Tolerance	%	±3	±3	±3	±3
Maximum Power Voltage-Vmp	V	37.1	37.2	37.3	37.5
Maximum Power Current-Imp	A	7.70	7.80	7.90	8.00
Open Circuit Voltage-Voc	V	44.4	44.6	44.8	45.0
Short Circuit Current-Isc	A	8.30	8.40	8.50	8.60
Maximum System Voltage-VDC	V	1000			
Encapsulated Solar Cell Efficiency-ηc	%	16.6	16.9	17.1	17.4
Module Efficiency-ηm	%	14.6	14.9	15.1	15.4
Solar Cell and Configuration		72 cells (156mm x 156mm) in a 6x12 matrix connected in series			
Solar Cell Technology & Size	mm	Mono 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 :** \_\_\_\_\_

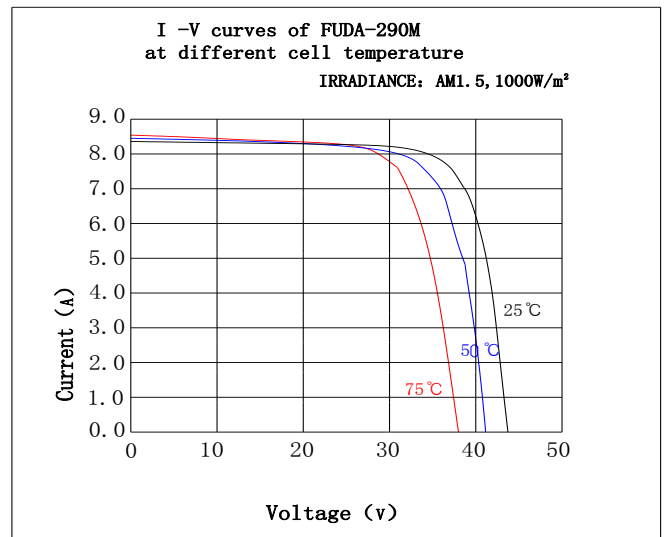
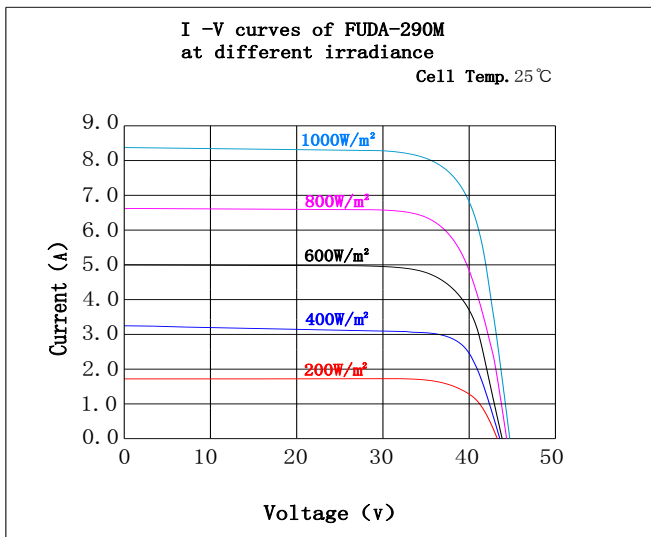


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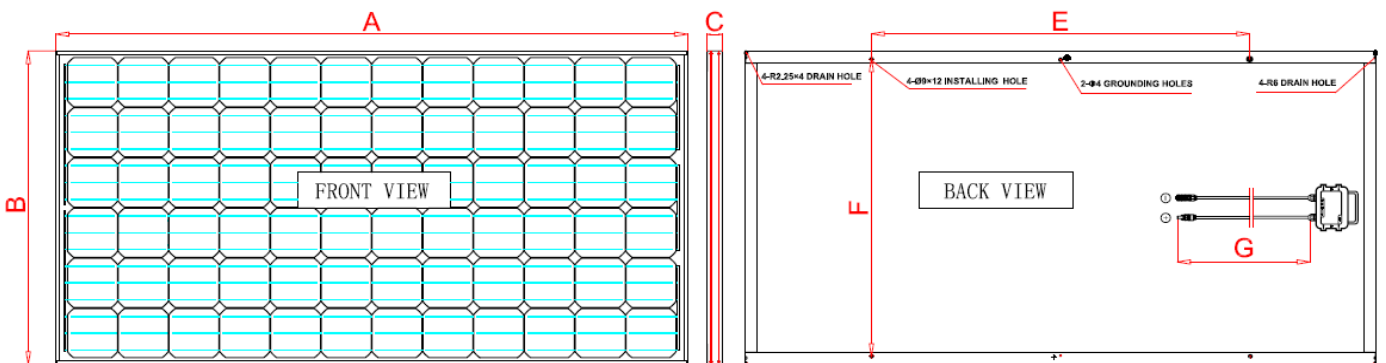
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**I-V Characteristics at different Irradiances & Temperatures**



**Dimensional Characteristics**



Prepared by :

Approved by :