



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

Premium 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-190M to 195M
	Document Number	FUDA-PS-M-S0001P
	Revision Number & Date	A, August 2009

Typical Electrical Characteristics

		Standard PV Modules	Premium PV Modules
Model Number	UOM	FUDA-190M	FUDA-195M
Rated Maximum Power-Pmax	Wp	190	195
Power Tolerance	%	±3	±3
Maximum Power Voltage-Vmp	V	37.8	37.9
Maximum Power Current-Imp	A	5.05	5.15
Open Circuit Voltage-Voc	V	45.1	45.2
Short Circuit Current-Isc	A	5.55	5.60
Maximum System Voltage-VDC	V	1000	
Encapsulated Solar Cell Efficiency-ηc	%	17.0	17.5
Module Efficiency-ηm	%	14.9	15.2
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		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	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 , Cell Temperature 25°C	
Operating Temperature	°C	-40~+85	
Product Certifications		IEC 61215, IEC 61730 & CE	

Mechanical & Packaging Characteristics

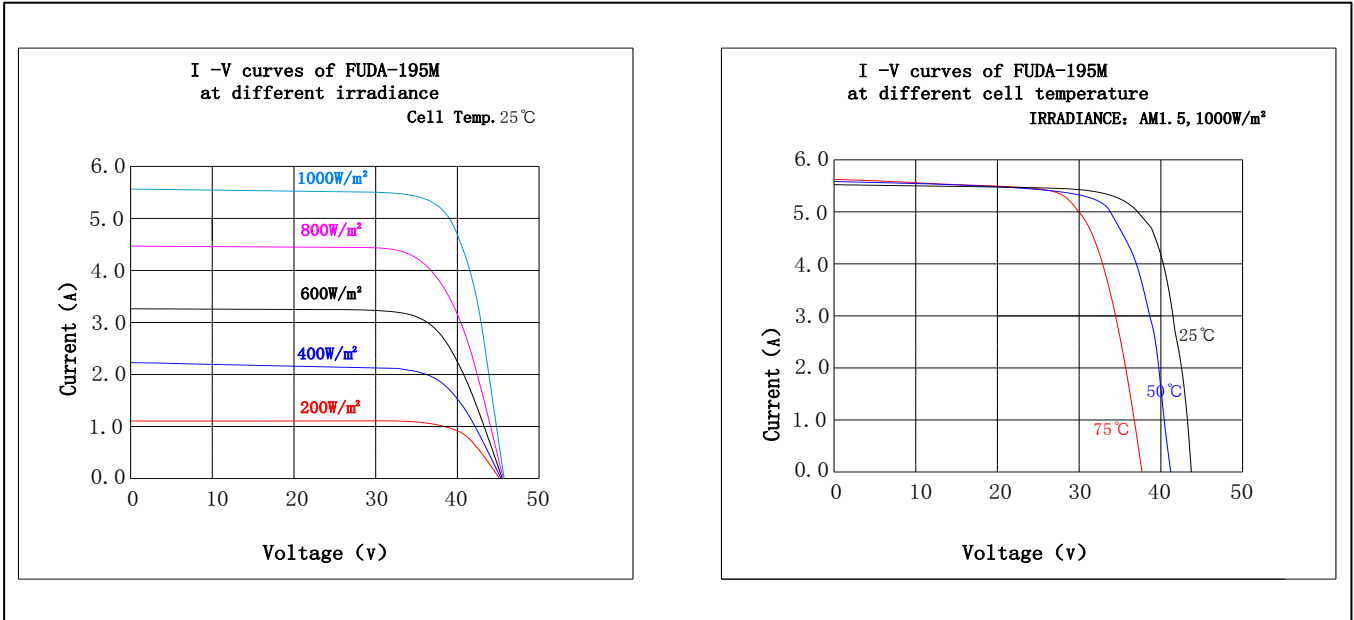
Dimension A*B*C	mm	1581*809*40
Installation Hole Dimension E*F	mm	948*754
Cable Length G	mm	1000
Weight	Kg	15.5
Number of Draining Holes in the Frame		12
Construction		Superstrate: High transmission 3.2mm tempered low iron glass; Substrate: White Back Sheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminum alloy type 6063T5; Color: silver
Packing Configuration and Quantity per Pallet		24 pcs per carton and One carton per pallet
Container Loading Capacity		672pcs per 40ft Container , 288pcs per 20ft Container



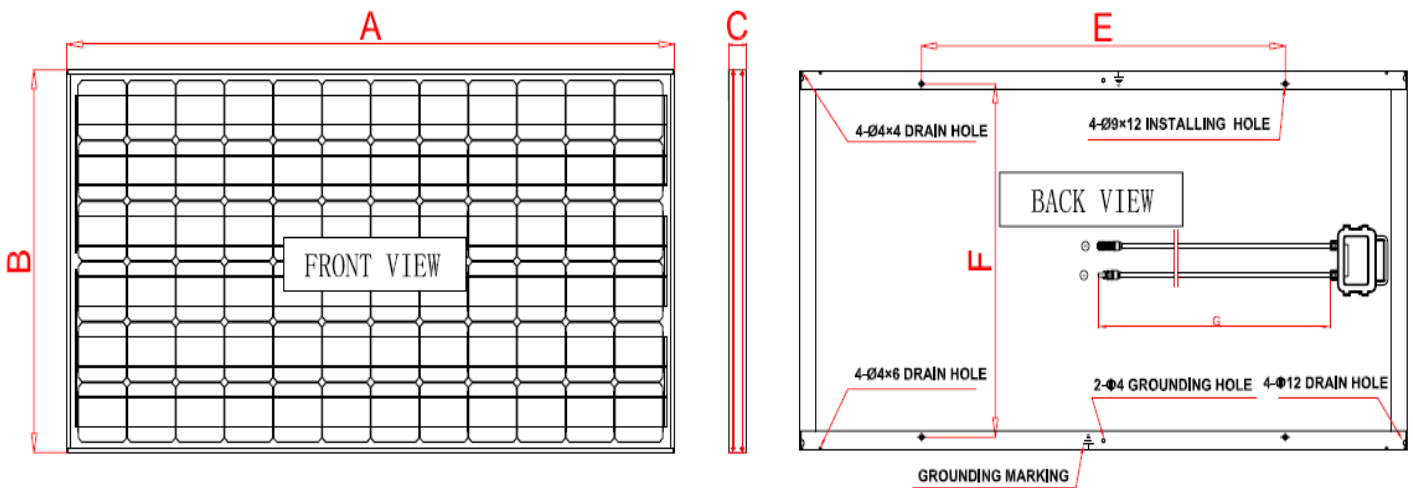
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I-V Characteristics at different Irradiances & Temperatures



Dimensional Characteristics



Prepared by :

Approved by :

Note: This publication summarizes product warranty and specifications, which are subject to change without notice.

Additional information may be found on our website: www.fuda-solarpower.com