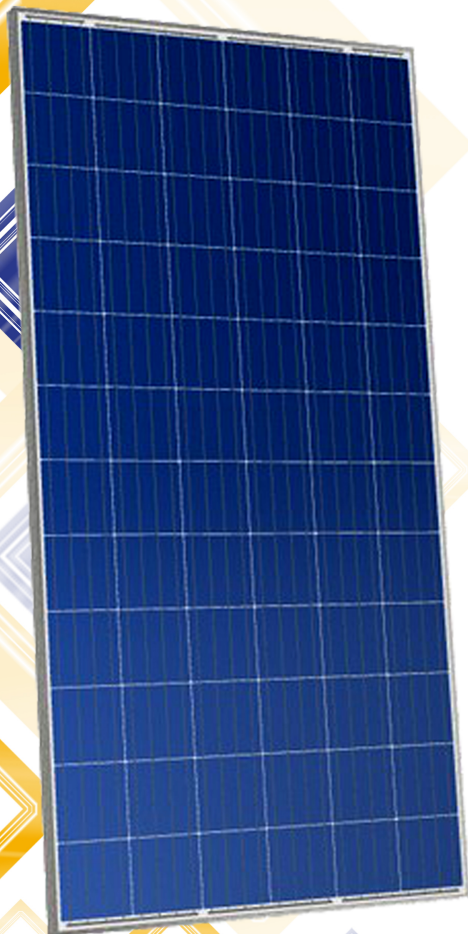


MCP-72FC-series 285-310W

72Cell PolyCrystalline Module

Maximum Efficiency **15.97%**

Positive Power Tolerance **0~+5W**



Optimum Value

1500V system voltage results in lower BOS cost
Low thermal coefficient for more energy production
Good for large scale installations



Higher Reliability

In-house testing beyond standard requirements
100% EL double inspection



Robust and Corrosion Free

2400Pa wind load - 5400Pa snow load
25mm Hail stone at 82 km/h

Product & System Certificates

IEC61215/IEC61730

ISO9001 : Quality Management System

ISO14001 : Environment Management System

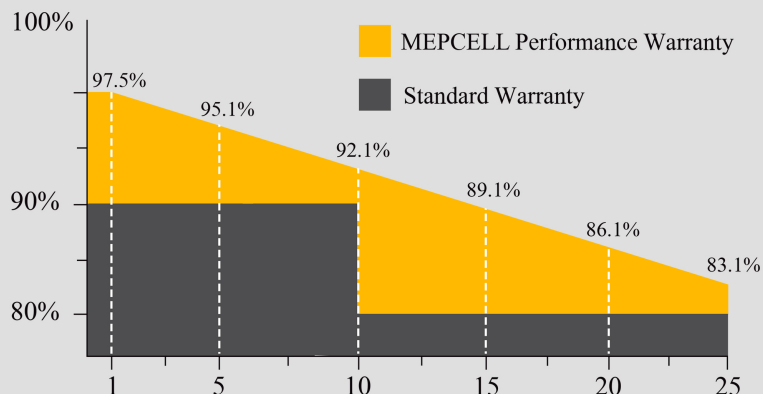
ISO1404 : Greenhouse Gases Emission Verification



Warranty
Performance



Warranty
Product



MEP CELL

Your Partner in Green Energy

Mana Energy Pak Co. (MEPCELL)

TEL: +98 - 21 79157000

WEB: www.mepcell.com

EMAIL: info@mepcell.com

Address: Unit 5, No.4, Jamishidi strt, Saadat Abad Blvd, Tehran, IRAN

Electrical Specification (STC)		STC: AM1.5 1000W/m ² 25°C [Test Uncertainty: ±3]				
Model		MCP-72FC-285	MCP-72FC-290	MCP-72FC-295	MCP-72FC-300	MCP-72FC-305
Max Power	P _{mpp} [W]	285	290	295	300	305
Max Power Voltage	V _{mpp} [V]	36.50	36.64	36.79	36.93	37.08
Max Power Current	I _{mpp} [A]	8.05	8.16	8.27	8.39	8.52
Open Circuit Voltage	V _{oc} [V]	44.40	44.59	44.78	44.97	45.16
Short Circuit Current	I _{sc} [A]	9.20	9.22	9.23	9.25	9.27
Efficiency	[%]	14.6	14.94	15.2	15.46	15.71

Electrical Specification (NMOT)		NMOT: 8000W/m ² 20°C 1ms [Test Uncertainty: ±3]				
Max Power	P _{mpp} [W]	216	222	226	230	233
Max Power Voltage	V _{mpp} [V]	32.77	32.90	33.03	33.16	33.30
Max Power Current	I _{mpp} [A]	6.14	6.26	6.37	6.49	6.62
Open Circuit Voltage	V _{oc} [V]	40.08	40.25	40.43	40.60	40.78
Short Circuit Current	I _{sc} [A]	7.31	7.33	7.34	7.36	7.38

Mechanical Data	
Solar Cell	Poly-Crystalline 5BB - 156.75mm (6") - [6x12]
Module Dimension	1956x992x35 mm (77.0x39.05x1.37 inches)
Weight	23kg [50.7lb]
Front Cover	Glass - 3.2mm High Transmission. Tempered AR Coated
Back Cover	White - 300μ
Frame	Silver Anodized Aluminium Alloy
Junction Box	IP68 Rated - 3 Bypass Diodes
Cable	PV Tech Cable 4.0m ² (0.006 inches ²)-1000mm(39.37")
Connector	MC4 Compatible (1500V)

Temperature Ratings				
Temperature Coefficient	I _{sc}	α	[%/°C]	+0.05
Temperature Coefficient	V _{oc}	β	[%/°C]	-0.34
Temperature Coefficient	P _{max}	γ	[%/°C]	-0.47
Nominal Module Operating Temperature	NMOT		[°C]	47

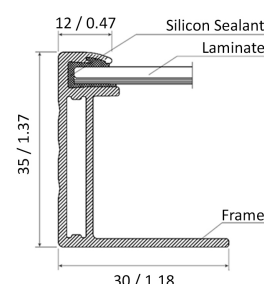
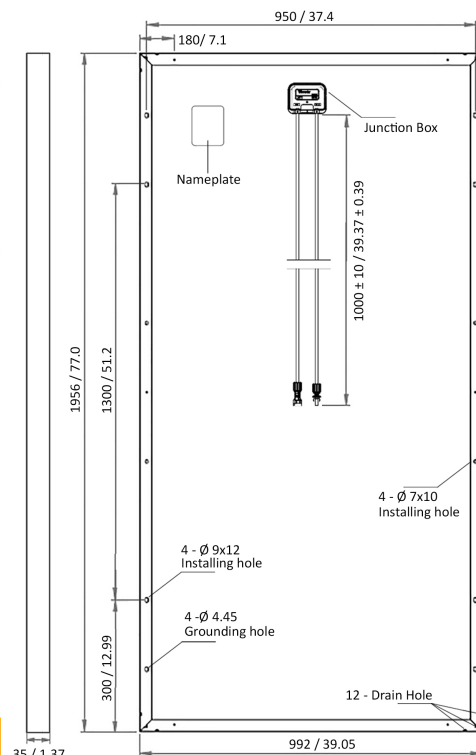
Properties for System Design		Packaging Information	
Max System Voltage	1500V	# Module per Pallet	30
Max System Fuse Rating	20 A	# Pallet per Trailer	24
Safety Class	II	# Pallet per 40'HC Container	22
Fire Rating	C/Type 2	Pallet Dimension (mm)	2080x1150x1185
Operational Temperature	-40 to +85 °C	Pallet Weight (kg)	727

Caution:

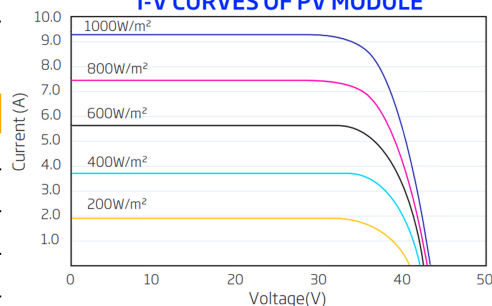
To operate, install and manage MEPCELL's modules, read the installation manual and use carefully.

Observations:

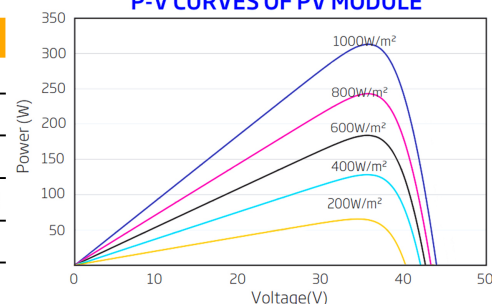
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I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



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