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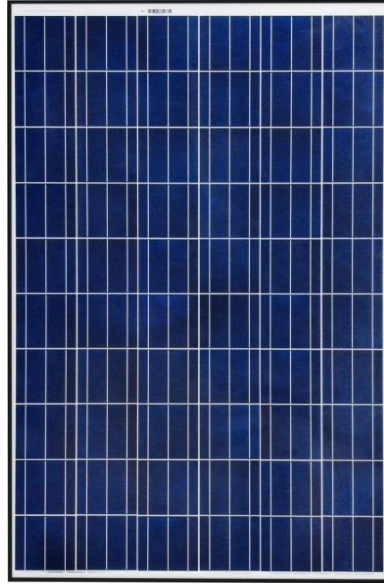
Solar Panel Guide Specification Data Sheet

Empire Photovoltaic Systems Pvt Ltd.

EPG 280-295

EPG-290

Also available on the web at
EnergyPal.com/empire-photovoltaic-systems-pvt-ltd-solar-panels/epg-290



EMPIRE PHOTOVOLTAIC

Key Features

15.1%

Module Efficiency

280W-295W

Power Output

5 Years

Warranty on Workmanship

25 Years

Warranty On Power Output



Flash testing for 100% Modules With PASAN AAA Rated Sun Simulator



10 Years warranty at 90%, 25 years warranty at 80% Workmanship Warranty 5Years.



IEC 61215
IEC 61730
IEC 61701



Excellent performance under low light environments (mornings, evenings and cloudy days)



Guaranteed positive tolerance -0/+1% Ensures power output reliability



Independent international authentication certified.

Website: www.epssolar.in
Email : sales@epssolar.in



Electrical Characteristics @ STC

Module	EPG-280	EPG-285	EPG-290	EPG-295
Module Power Pmax Wp	280	285	290	295
Max Power Voltage Vmp	35.78	35.93	36.14	36.43
Max Power Current Imp	7.83	7.95	8.03	8.1
Open Circuit Voltage Voc	43.56	43.92	44.28	44.64
Short Circuit Current Isc	8.45	8.5	8.55	8.6
Cell efficiency in %	16.6%	16.8%	17.2%	17.4%
Module efficiency in %	14.20%	14.45%	14.71%	14.96%
Operating temperature	-40°C to + 85°C			
Series fuse rating	15Amps			
Maximum system voltage	1000V DC(IEC)			
Normal Operating Cell Temp(NOCT)	48°C ± 2°C			

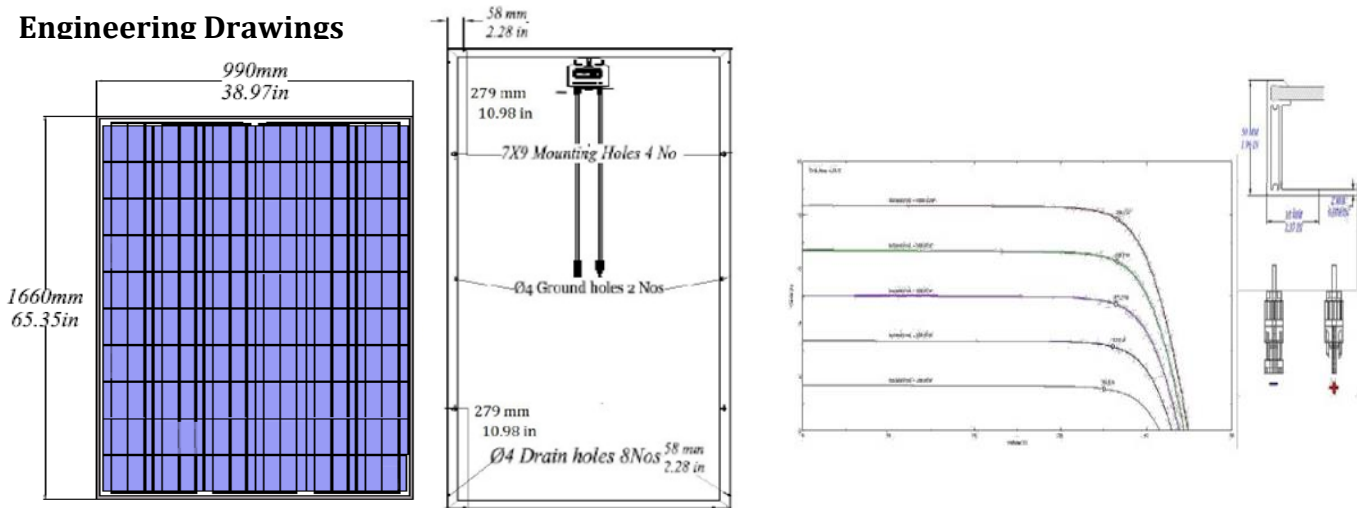
Mechanical Characteristics

No of cells & Type	72 Cells(6*12),156mm si-Poly
Module Mechanical Data (Size)	1986 X 990 X 50 mm
Front Cover (Glass)	Low Iron Tempered Glass 4mm ,
Module weight Kgs	25
Junction Box Type	IP65 MC4 Connector with 1mtr cable
Cable	4Sq.mm(IEC)/12AWG(US),1000mm
No of Modules Per 40' Container	440 Nos(22Pallets x 20 Nos)

Temperature Characteristics

Temperature Coefficient of Voc	-0.34±0.01 (%/°C)
Temperature Coefficient of Isc	+0.07±0.02 (%/°C)
Temperature Coefficient of Pmax	-0.46±0.02 (%/°C)

Engineering Drawings



* Specifications are subject to change with out further Notifications.

Website: www.epssolar.in

Email: sales@epssolar.in, info@epssolar.in

Mob: +91-9840938278,

Ph: +91-44-24934440.

EMPIRE PHOTOVOLTAIC SYSTEMS PVT LTD.