



EMPIRE PHOTOVOLTAIC 'S

Key Features

15.1%
Module Efficiency

135W-145W
Power Output

5 Years
Warranty on Workmanship

25 Years
Warranty On Power Output



Flash testing for 100% Modules With PASAN



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



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



Guaranteed positive tolerance -0/+1% Ensures



Independent international authentication certified.

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Electrical Characteristics @ STC

Module	EPG-135	EPG-140	EPG-145
Module Power Pmax Wp	135	140	145
Max Power Voltage Vmp	17.32	17.64	17.86
Max Power Current Imp	7.8	7.94	8.13
Open Circuit Voltage Voc	21.6	21.672	21.708
Short Circuit Current Isc	8.4	8.5	8.68
Cell efficiency in %	16.0%	17.0%	17.0%
Module efficiency in %	13.36%	13.86%	14.35%
Operating temperature	-40°C to + 85°C		
Series fuse rating	15 Amps		
Maximum system voltage	1000V DC(IEC)		
Normal Operating Cell Temp(NOCT)	48°C ± 2°C		

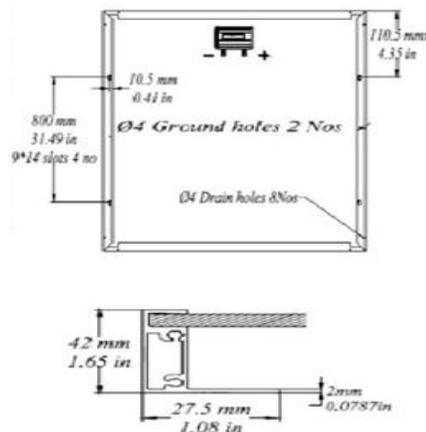
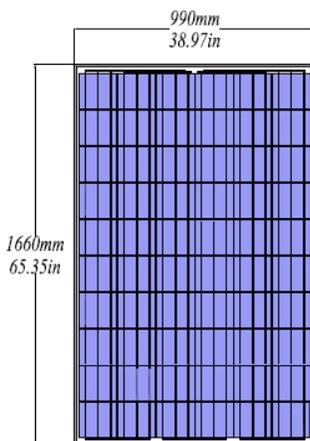
Mechanical Characteristics

No of cells & Type	36 Cells(6*6),156mm Si-Poly
Module Mechanical Data (Size)	1021 X 989 X 42 mm
No of Modules Per 40' Container	N.A
Front Cover (Glass)	Low Iron Tempered Glass 3.2mm ,
Module weight Kgs	13
Junction Box Type	IP65 MC4 Connector with 1mtr cable
Cable	N.A

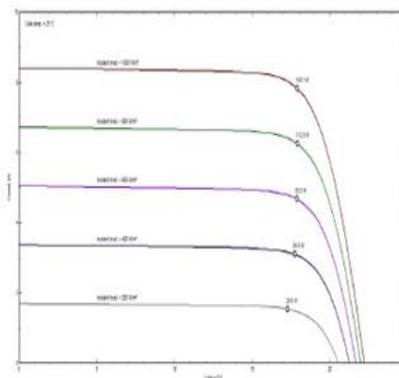
Temperature Characteristics

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



I-V Curves



* Specifications are subject to change with out further Notifications.

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