

Empire

PHOTOVOLTAIC SYSTEMS

EMPIRE PV MODULES

Key Features

15.33% - 16.58%
Module Efficiency

245W-265W
Power Output

5 Years
Warranty on Workmanship

25 Years
Linear performance guarantee
On Power Output



Flash test for 100% Modules With PASAN sun simulator, Switzerland.



EMPIRE modules are covered with both 5-year Product Warranty (materials & workmanship) and 25-year limited warranty on power output.



IEC Certified Products with RFID tags from world renowned laboratories VDE Institute & TÜV Rheinland Germany with certifications IEC-61215, IEC-61701, IEC-61730 (Part 1 & Part 2).



ROHS – 2 certification as per the recast of 'The European Parliament and of The Council Directive' 2011/65/EU.



Guaranteed positive tolerance -0/+1%



Independent international authentication certified.



Web: www.epssolar.in

Email : sales@epssolar.in

Contact: +91-44-24934440

EMPIRE PHOTOVOLTAIC SYSTEMS PVT. LTD.

Corporate Office:

New No.24, Old No. 32, 1st floor, South Mada St,
Mylapore, Chennai, Tamil Nadu INDIA - 600004.
Website: www.epssolar.in

Registered Office & Works:

Fab City-SEZ, Plot #7A, Sy.#114/P, Srinagar (V),
Maheswaram (M), Ranga Reddy Dist, Hyderabad
Telangana State, INDIA - 501359.

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		EPG - 245	EPG - 250	EPG - 255	EPG - 260	EPG - 265
Maximum Power	Pmax (Wp)	245	250	255	260	265
Open Circuit Voltage	Voc (V)	36	36	36	36	36
Maximum Power Point Voltage	Vmpp (V)	30.48	30.72	31.14	31.51	31.81
Short Circuit Current	Isc (A)	8.56	8.62	8.71	8.74	8.82
Maximum Power Point Current	Impp (A)	8.05	8.12	8.21	8.25	8.35
Module Efficiency	η m	15.33%	15.64%	15.95%	16.26%	16.58%

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800W/m², NOCT, AM1.5

		EPG - 245	EPG - 250	EPG - 255	EPG - 260	EPG - 265
Maximum Power	Pmax (Wp)	179.26	182.92	186.56	190.23	194.85
Open Circuit Voltage	Voc (V)	33.02	33.02	33.11	33.15	33.17
Maximum Power Point Voltage	Vmpp (V)	27.41	27.62	28.03	28.33	28.59
Short Circuit Current	Isc (A)	7.01	7.06	7.13	7.16	7.22
Maximum Power Point Current	Impp (A)	6.59	6.65	6.72	6.76	6.84

DIMENSIONS

Length	1659mm
Width	989mm
Height	40mm
Frame	Clear Anodised Aluminium
Weight	19.5 kgs

COMPONENT MATERIALS

Cells per module	60
Cell Type	Poly crystalline
Cell Dimensions	156 mm x 156 mm
Front	3.2 mm Solar Low Iron Tempered Glass

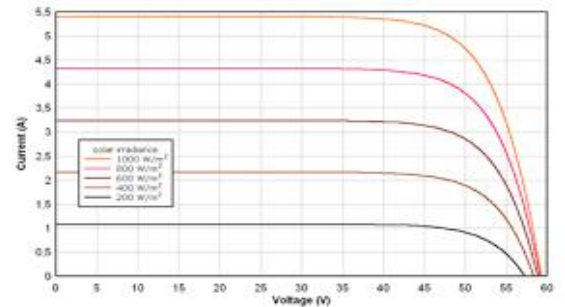
THERMAL CHARACTERISTICS

NOCT	48°C ± 2°C
TC Isc	+0.07±0.02(%/°C)
TC Voc	-0.34±0.01 (%/°C)
TC Pmpp	-0.46±0.02 (%/°C)

ADDITIONAL DATA

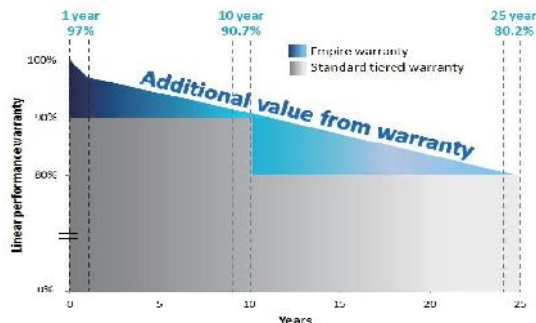
Power Sorting	±3%
J-Box	IP65, 3 Bypass diodes
Cable	4mm ² , 1000mm
Connector	MC4
Module fire performance	CLASS-C

IV CURVE



PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Maximum System Voltage SC II/NEC	1000 V
Maximum Reverse Current	20 A
Operating Range	-40°C to +85°C



- Empire Solar guarantees a maximum performance degradation of 0.7% per year
- At least 97% of the nominal output
- At least 90.7% of the nominal output after 10 years
- At least 80.2% of the nominal output after 25 years

MECHANICAL DRAWING

