



Solar PV Modules

Monocrystalline PERC Solar PV Modules 300-320W



Higher Efficiency



Easy Handling & Installation



Maximum System Voltage of 1500V DC



Higher Module Power Output



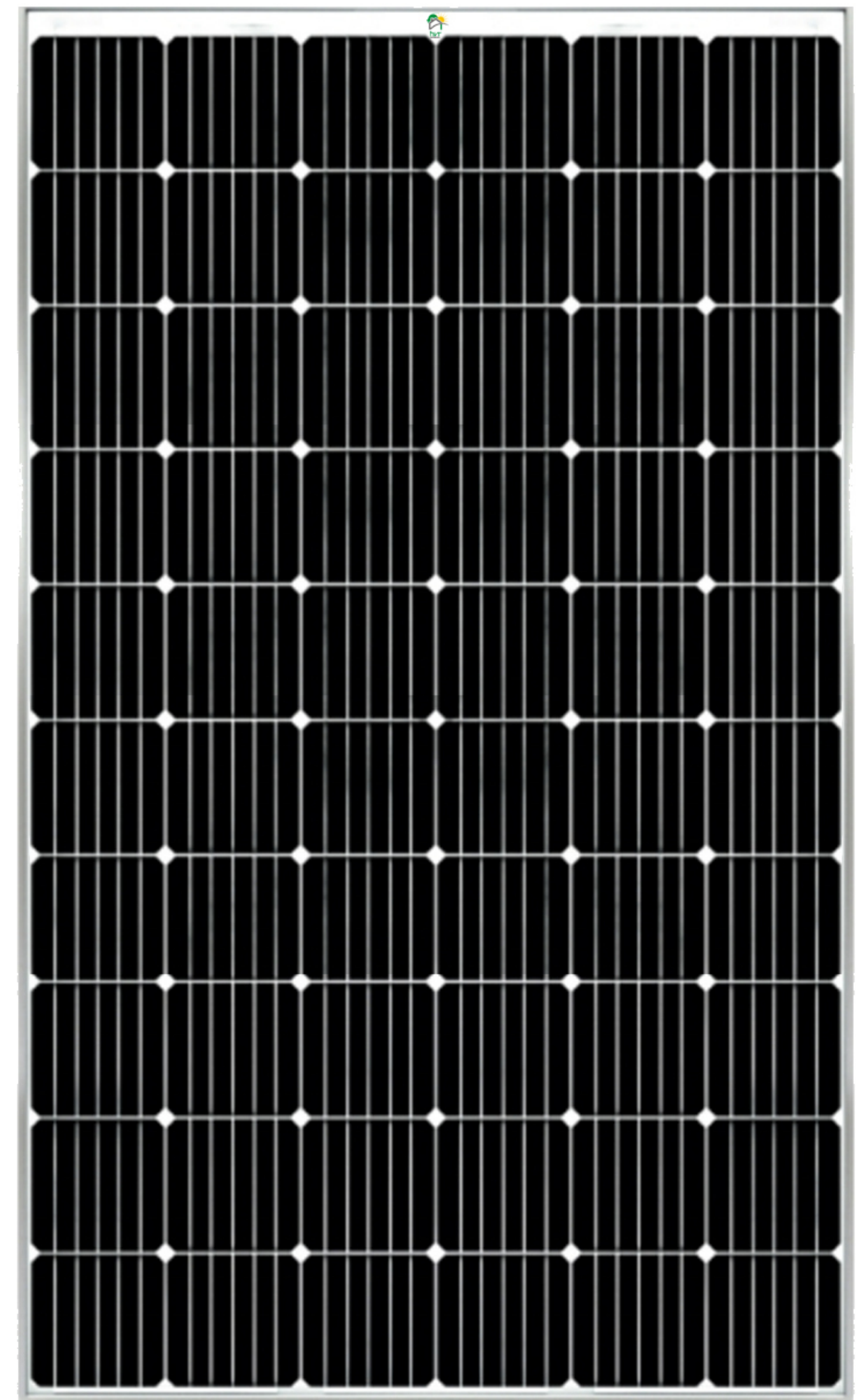
BOS Cost Reduced



15 Years Product Workmanship Warranty



27 Years Product Performance Warranty



Why PHOTON Solar ?

Stringent Quality Control

Intensive R&D

Highly Skilled Management

Tier-1 Raw Material Used

Highest Standards of Product

Door-to-Door Supply Chain & Logistic

Product Reliability Factor



Positive Power Tolerance



Withstand Harsh Environmental Conditions



100% EL Inspected-Micro Crack Free Module



High Low Light Performance



High Resistivity AR Coated Glass



PID Resistant 5/6 BB Cells & Encapsulants

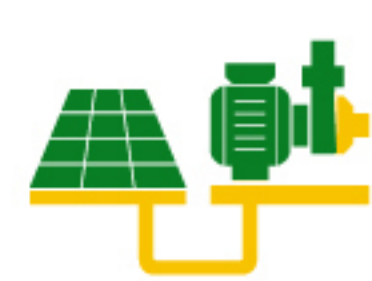
Applications



On-Grid Rooftop Industrial & Commercial System



Off-Grid Rooftop System



Solar Water Pumping



Off-Grid System For Filling Stations



Electric Vehicles Charging Station



On-Grid Large Scale Utility Projects



RoHS



TECHNICAL DATA



Module Series	PHOTON M060F18V300	PHOTON M060F18V305	PHOTON M060F18V310	PHOTON M060F18V315	PHOTON M060F18V320
Dimension-LxW (MM)	1645*990	1645*990	1645*990	1645*990	1645*990
Cell Size (MM)	157*157	157*157	157*157	157*157	157*157
No of Cell	60	60	60	60	60
Max Series Fuse Rating	20A	20A	20A	20A	20A
Maximum System Voltage (V)	1000/1500	1000/1500	1000/1500	1000/1500	1000/1500

Electrical Characteristics at STC

Maximum Power Pmax (Wp)	300	305	310	315	320
Maximum Voltage Vmpp (V)	32.60	32.90	33.10	33.30	33.50
Maximum Current Imp (A)	9.77	9.85	9.94	10.02	10.13
Open circuit Voltage Voc (V)	39.80	40.00	40.40	40.70	41.10
Short Circuit Current Isc (A)	9.19	9.28	9.37	9.47	9.57
FF	0.77	0.77	0.77	0.77	0.77
Module Efficiency(%)	18.40	18.74	19.04	19.36	19.68

STC:1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3

2 Average relative efficiency reduction of <5% for every 200W/m reduction in Irradiance, according to EN 60904-1

Electrical Characteristics at NOCT

Maximum Power Pmax (Wp)	221.97	227.55	230.21	236.36	241.01
Maximum Voltage Vmpp (V)	30.20	30.75	30.90	31.10	31.30
Maximum Current Imp (A)	7.35	7.40	7.45	7.60	7.70
Open circuit Voltage Voc (V)	36.80	36.90	37.20	37.40	37.90
Short Circuit Current Isc (A)	7.81	7.90	7.95	8.02	8.09

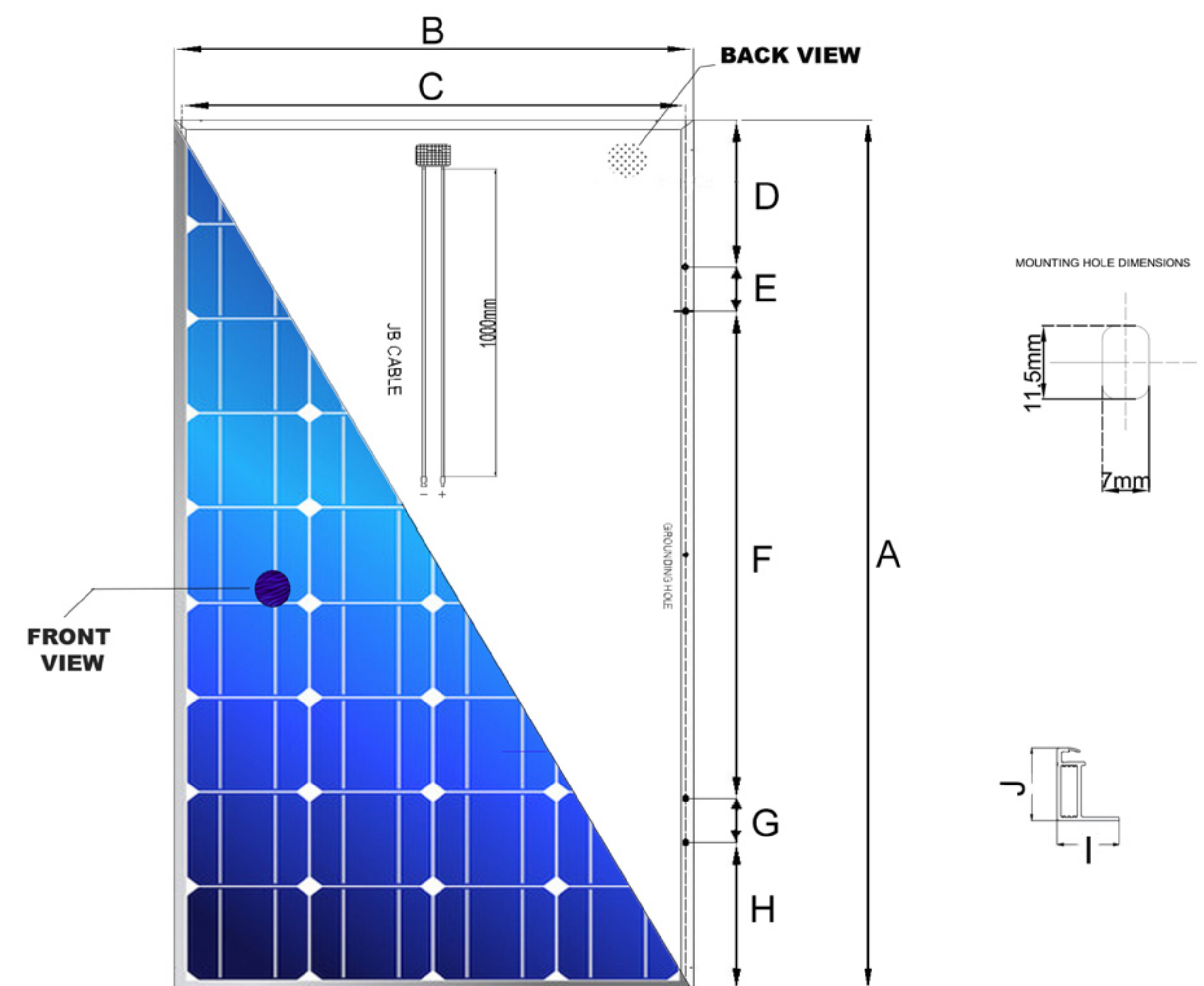
NOCT:800W/m² irradiance, 20°C ambient temperature, Wind Speed 1m/sec

Temperature Coefficients (Tc) Permissible Operating Conditions

Tc of Open Circuit Voltage (α)	-0.28%/°C ± 0.02
Tc of Short Circuit Current (β)	0.048%/°C ± 0.01
Tc of Power (γ)	-0.39%/°C ± 0.02
NOCT	46 ± 2°C
Temperature Range	-40°C to +85 °C
Limiting Reverse Current (Ir)	20A

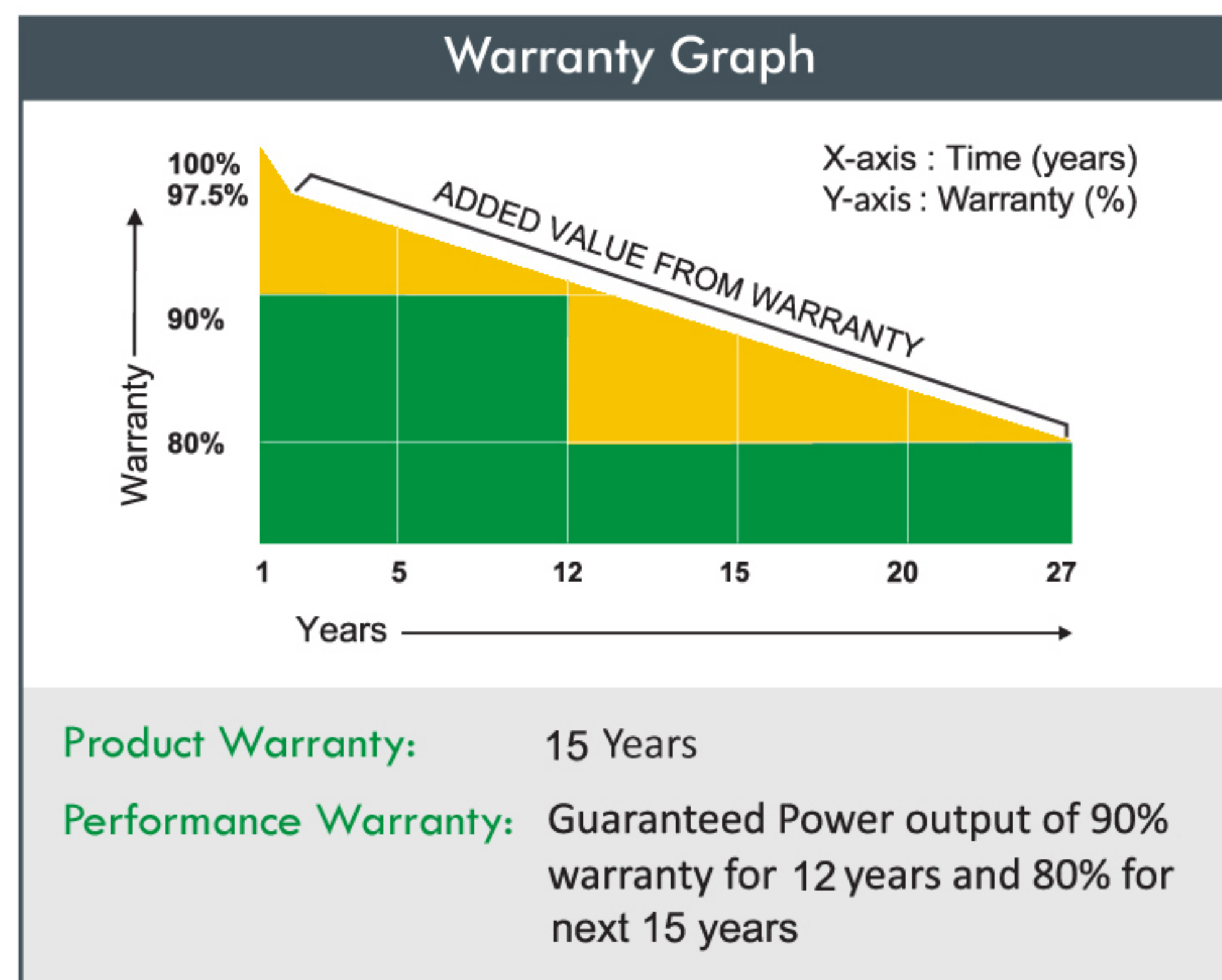
Mechanical Data

Junction Box	IP 67/IP 68 rated with 3 Bypass diodes
Cable & Connectors	Solar cable 1000mm x 2 nos black MC4/MC4 Compatible connectors
Application Class	Class A (Safety class II)
Substrate (Glass)	High transmission low iron tempered glass
Solar cells & Orientation	Mono PERC Solar Cells
Cells Encapsulant	EVA (Ethylene Vinyl Acetate) - FC/UFC
Back Sheet	Composite film - White
Frame	Silver Anodized aluminum frame with twin wall profile
Mechanical Load Test	Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m ² Maximum diameter of 24 mm with Hail impact of 83 Km/h

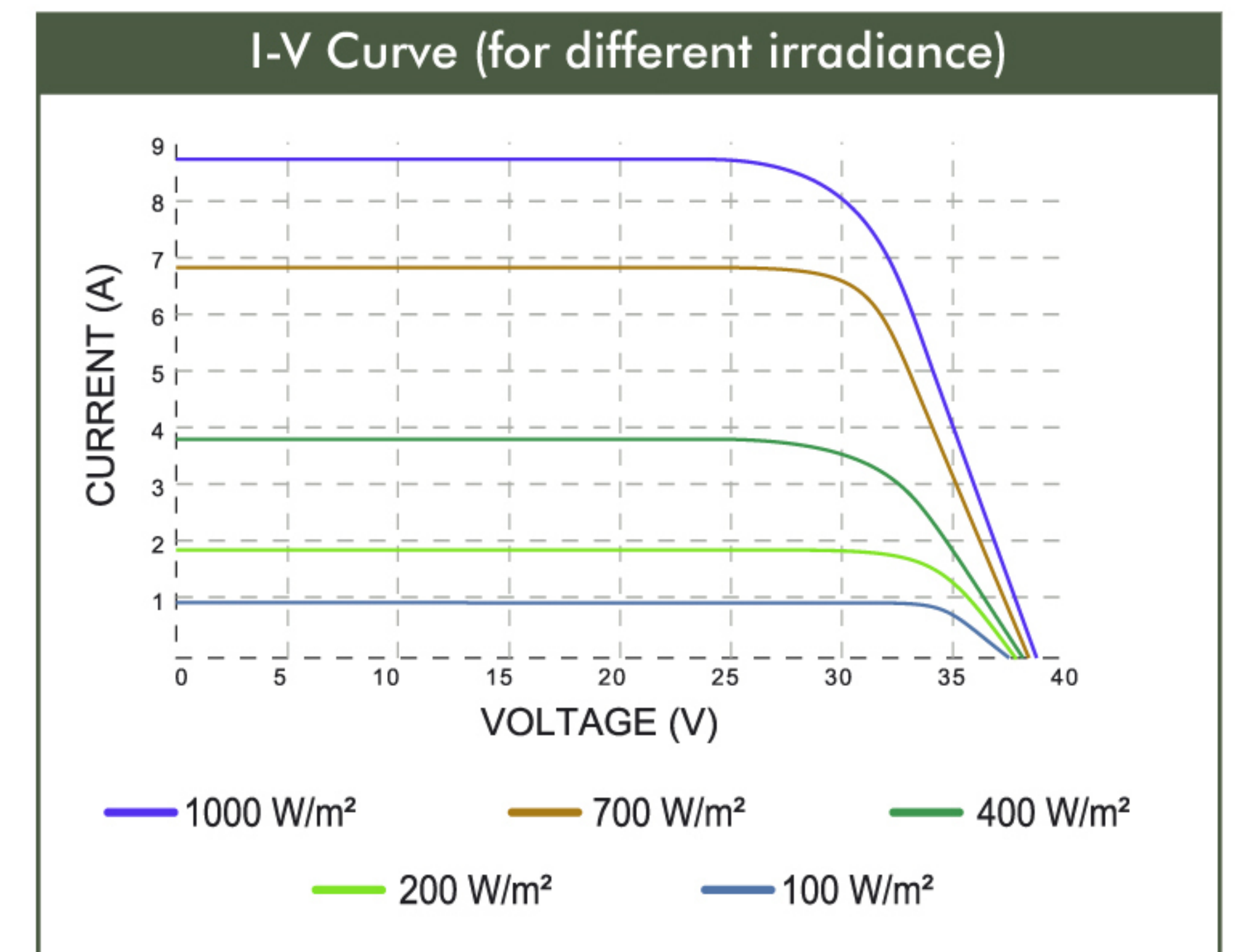


Module & Hole Mounting Dimension

DIMENSION (in mm)	PHOTON M060F18V300	PHOTON M060F18V305	PHOTON M060F18V310	PHOTON M060F18V315	PHOTON M060F18V320
A	1645	1645	1645	1645	1645
B	990	990	990	990	990
C	960	960	960	960	960
D	322.5	322.5	322.5	322.5	322.5
E	200	200	200	200	200
F	600	600	600	600	600
G	200	200	200	200	200
H	322.5	322.5	322.5	322.5	322.5
I	25	25	25	25	25
J	35	35	35	35	35



Approvals and Certification	
Products:	IEC 61215, ROHS IEC 61730, IEC 61701, CE, UL 1703,
Manufacturing:	ISO 9001:2015, ISO 14001: 2015 ISO 45001:2018



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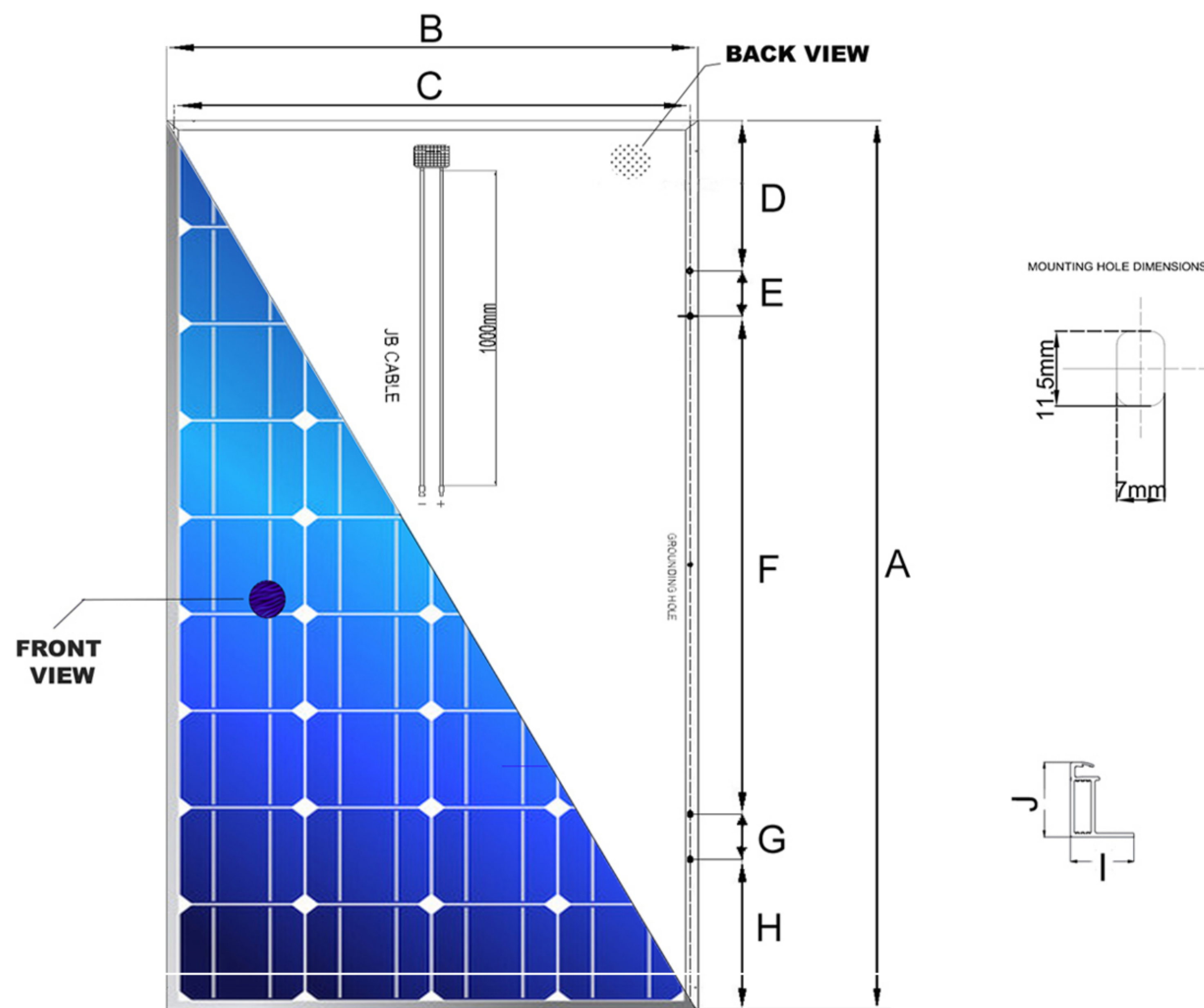
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Module & Hole Mounting Dimension

DIMENSIONS (in mm)	WATTAGE				
	300Wp	305Wp	310Wp	315Wp	320Wp
A	1645	1645	1645	1645	1645
B	990	990	990	990	990
C	960	960	960	960	960
D	322.5	322.5	322.5	322.5	322.5
E	200	200	200	200	200
F	600	600	600	600	600
G	200	200	200	200	200
H	322.5	322.5	322.5	322.5	322.5
I	25	25	25	25	25
J	35	35	35	35	35

★ Note:-Dimensions mentioned in this sheet are subject to change without notice. Please confirm the same with Company representative while placing the order.



Applications

- Portable mobile charging
- Home lightning System
- Solar lantern
- Street Light Application
- Off-Grid Rooftop Systems



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