



AmericanSolar

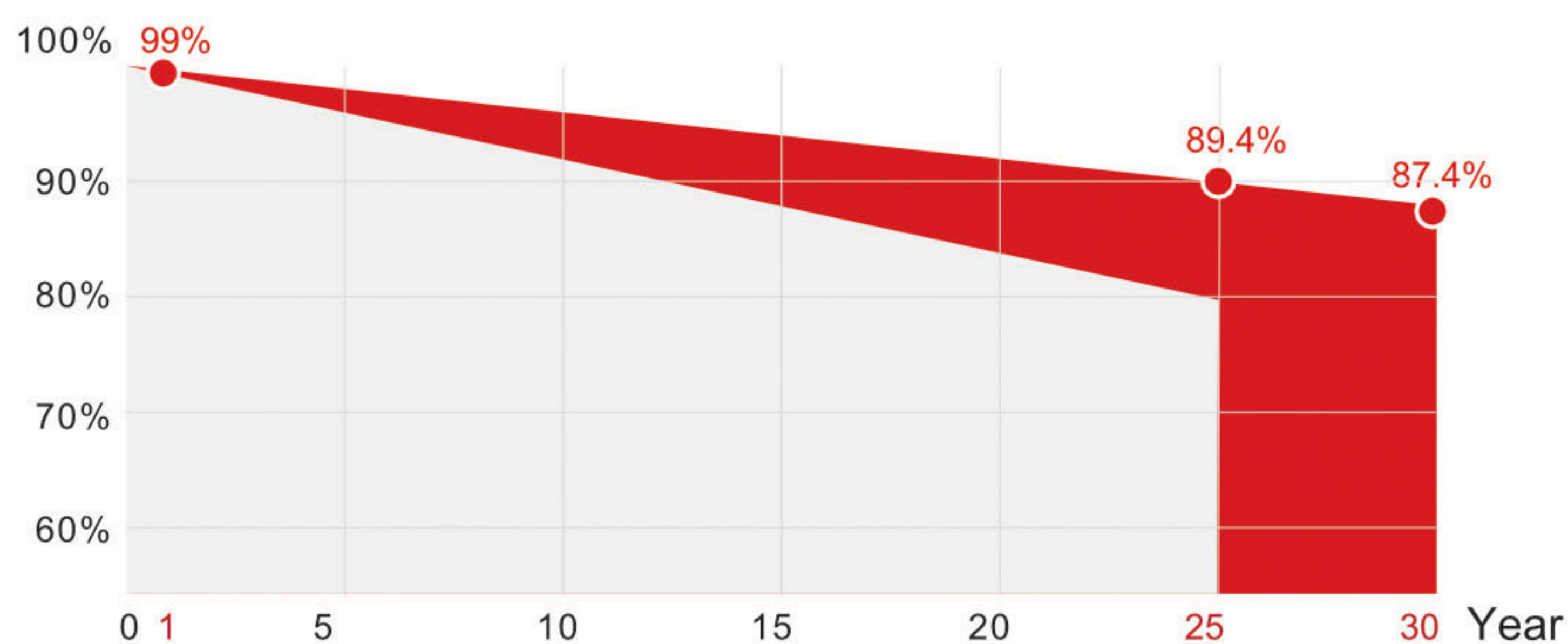
TOPCON MONO

710W

- Double glass
- Silver frame
- Black frame
- Full black

25 Yr quality guarantee | 30 Yr power warranty

- (Additional value from 30-year warranty)
- Common module



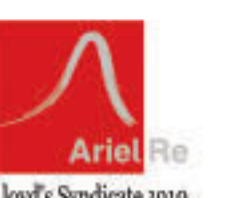
Factory:

American ELECTRONICS (SMC-PRIVATE) LIMITED
149 & 150, M3 Industrial City, Faisalabad



ISO 9001
ISO 45001

ISO 14001
OHSAS 18001



Regional Offices:

Head Office:

38, Shadman Colony 1, Lahore
Tel: 042 35409030, 35409031

Multan Office

Dera Adda Chowk MashaAllah Plaza Azmat
Wasti Road, Near Capri Cinema Multan
Tel: 061 4585510

Peshawar Office

City Tower First Floor Office# F21/F22,
Kabali Cinema Road, Peshawar

Sialkot Office

Basement Gourmet Bakery Opposite Shell
Patrol Pump, Daramowala Chowk Railway Road, Sialkot

Karachi Office

19/G-1, Block 6, PECHS, Near Leopards
Courier Service, Shahr-e-Faisal, Karachi
Tel: 021 34303648, Fax: 021 34303649

Faisalabad Office

Shop # 35,36 Prime Center Malik Road,
Near Gujjar Basti Faisalabad

Hyderabad Office

172 Block E, Unit#6 Ground Floor
Latifabad, Hyderabad

Sahiwal Office

Plaza 497/498/B-1, Near Furniture Bazar,
Near City Church, Sahiwal

Islamabad Office

Basement Chakwal Tyre PD-546, Fareed
Plaza Double Road, I-J Principle Road,
Opposite I-8/1 Islamabad. Tel: 051 4856553

Gujranwala Office

Gonda Wala Road, Nomania
Chowk Sardar Market, Gujranwala

Sargodha Office

Shop # 3-S-39 Block No. 16 Moti Masjid Road
Near Dr. Younis Sargodha



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Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m² ,Cells Temperature25℃)

Typical type

	690W	695W	700W	705W	710W
Max power(Pmax)	690	695	700	705	710
Max power voltage(Vmp)	440.12	40.32	40.51	40.69	440.88
Max power current(Imp)	17.2	17.24	17.28	17.33	17.37
Open circuit voltage(Voc)	47.88	48.08	48.27	48.46	48.65
Short circuit current(Isc)	18.25	18.28	18.32	18.36	18.4
Module Efficiency(%)	22.21	22.37	22.53	22.70	22.86
Max system voltage	DC 1500V / 1000V (IEC)				
Maximum Series Fuse Rating	35A				

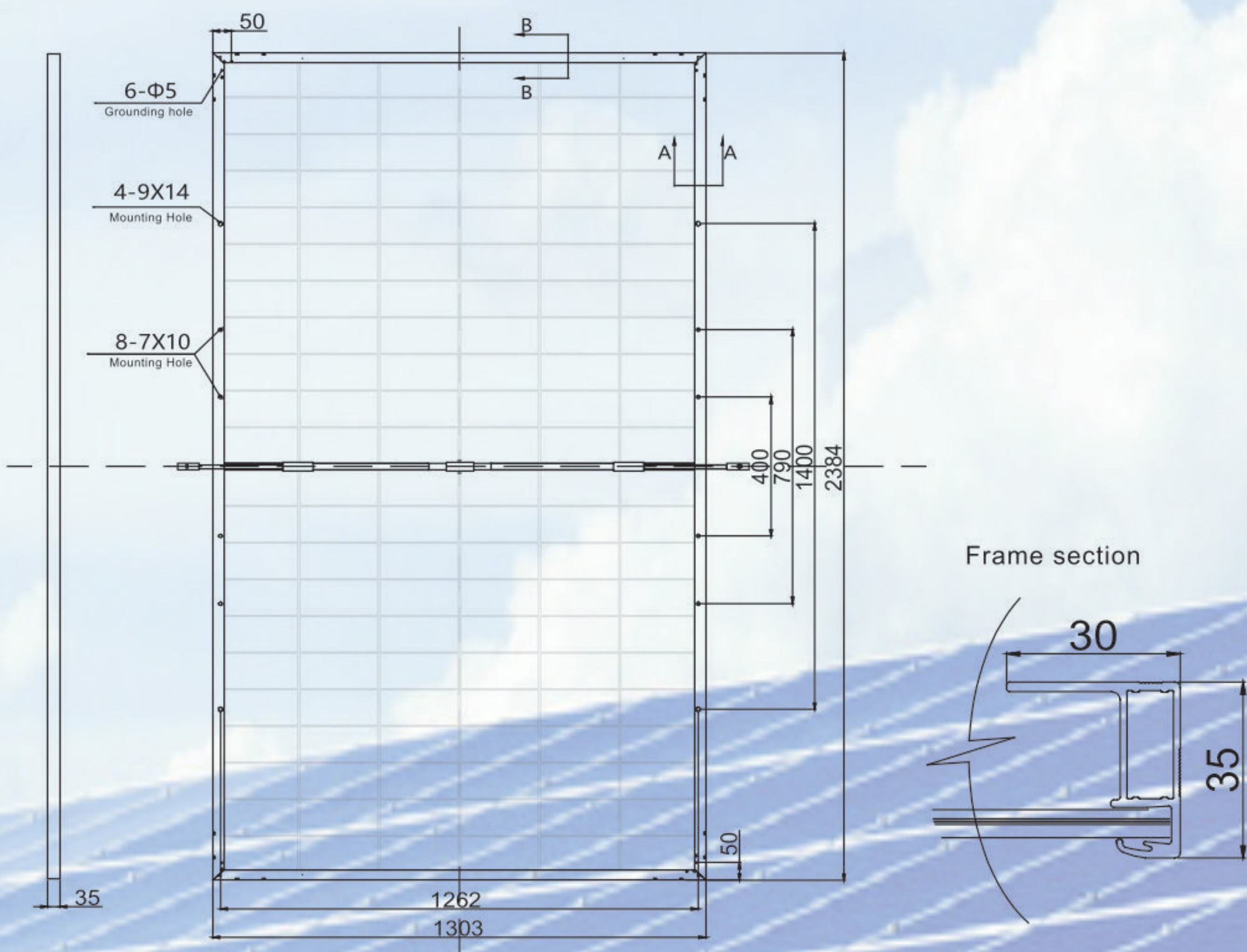
Electrical Characteristics with 20% Rear Side Power Gain

Front power Pmax/W	690W	695W	700W	705W	710W
Total power Pmax/W	793.5	799.25	805	810.75	816.5
Vmp/V(Total)	42.13	42.26	42.41	42.56	42.72
Imp/A(Total)	18.83	18.91	18.98	19.05	19.11
Voc/V(Total)	47.88	48.08	48.27	48.46	48.65
Isc/A(Total)	20.99	21.02	21.07	21.11	21.16

Electrical parameters at NMOT test conditions
(Irradiance 800W/m²,Ambient Temperature 20℃,AM 1.5,Wind Speed 1m/s)

Typical type	690W	695W	700W	705W	710W
Max power(Pmax)	520.1	524.1	527.9	532.2	536.3
Max power voltage(Vmp)	37.5	37.7	37.9	38.1	38.30
Max power current(Imp)	13.87	13.91	13.94	13.98	14.01
Open circuit voltage(Voc)	45.3	45.5	45.7	45.9	46.10
Short circuit current(Isc)	14.68	14.71	14.74	14.77	14.80

DIMENSIONS AND STRUCTURE



Mechanical Data

Dimensions	2384x1303x35mm
Weight	39 kg
Glass	(F) 2.0mm ultra clear embossed double layer colorless glass (B) 2.0mm semi-tempered glass
Output cables	4mm², symmetrical lengths 1300mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline, N-type Bifacial , 210x105mm
Number of cells	132cells (Half-Cell)

Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.05%/ °C
Temp.Coeff.of Voc(TK Voc)	-0.25%/°C
Temp.Coeff.of Pmax(TK Pmax)	-0.29%/°C
Operating temperature	-40~+85℃
Normal operating cell temperature	41±3℃

Packing Configuration

Container	40'HQ
Pieces per pallet	31
Pallets per container	18
Pieces per container	558

Tests, Certifications and Warranties

System certs	ISO 9001, ISO14001, ISO45001
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0~+10W
Junction box	IP 68
Warranties	25 years product warranty and 30 years 87.4% of power

I-V CHARACTERISTICS AT DIFFERENT IRRADIATION

