

Tier1
BloombergNEF

Photovoltaic Module



AmericanSolar

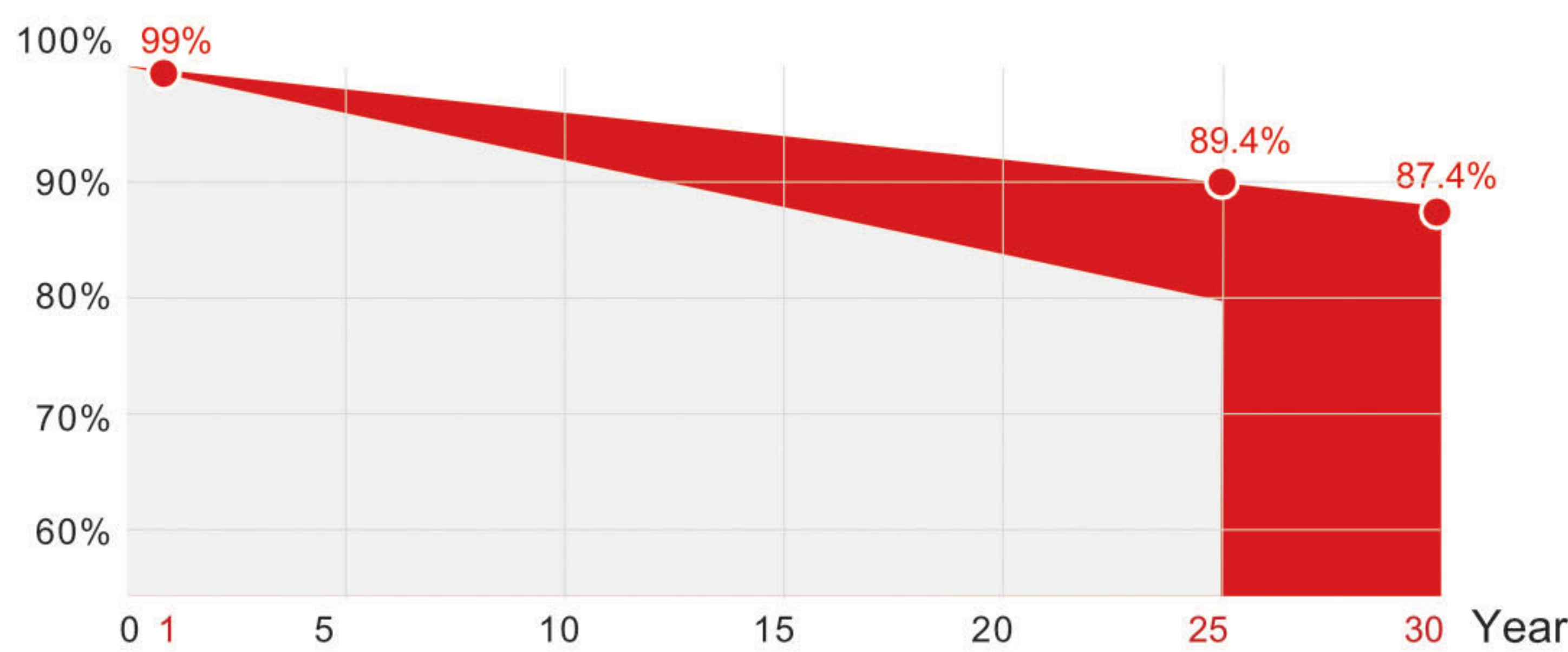
N-TYPE

580W

BIFACIAL MODULE WITH DUAL GLASS

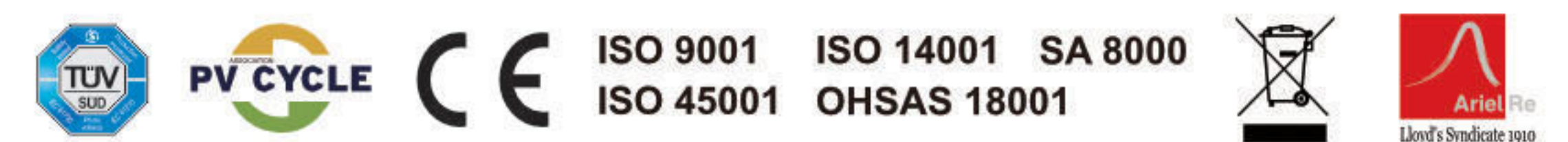
25 Yr quality guarantee | 30 Yr power warranty

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



Factory:

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



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, Shakra-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

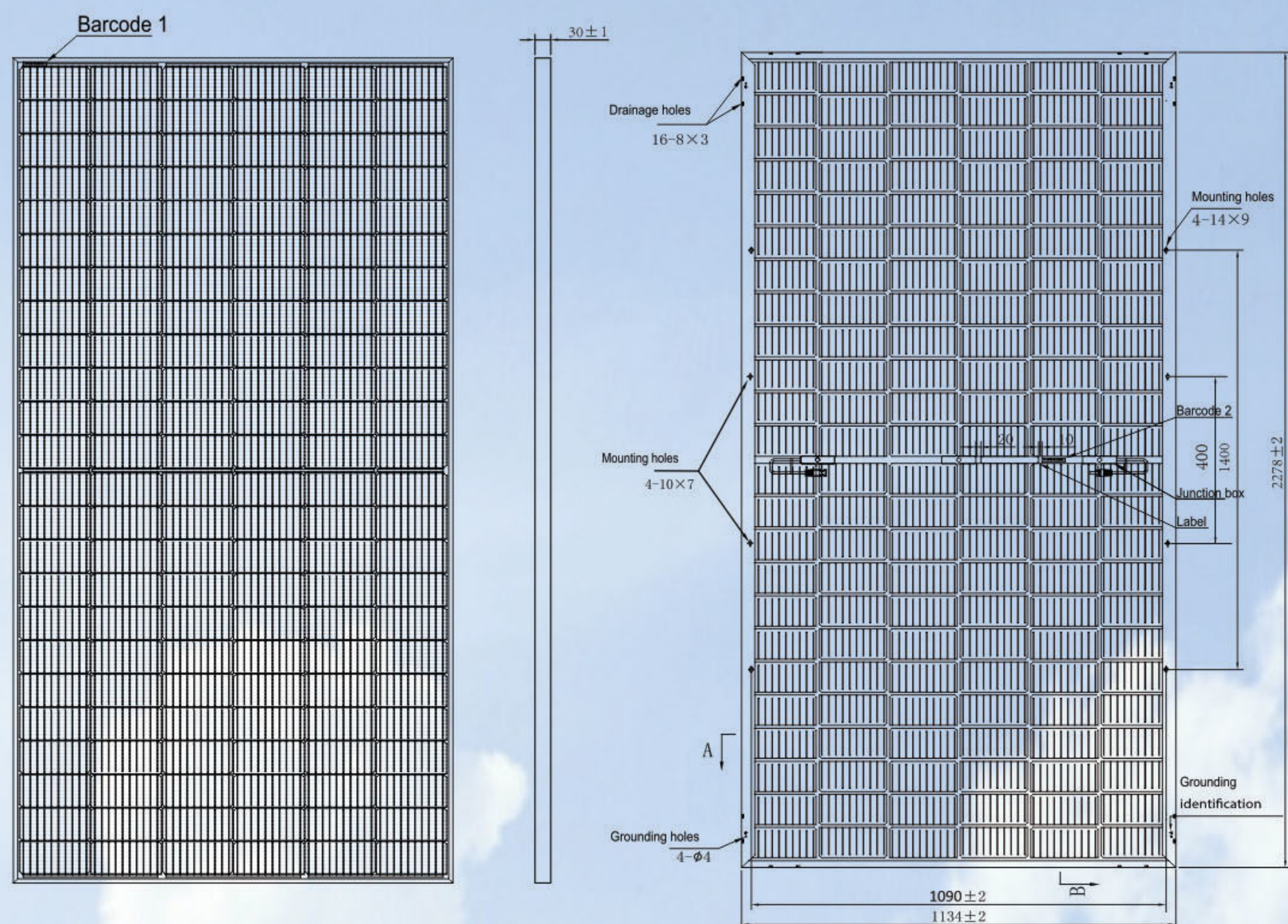
Gujranwala Office
Gonda Wala Road, Nomania
Chowk Sardar Market, Gujranwala

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

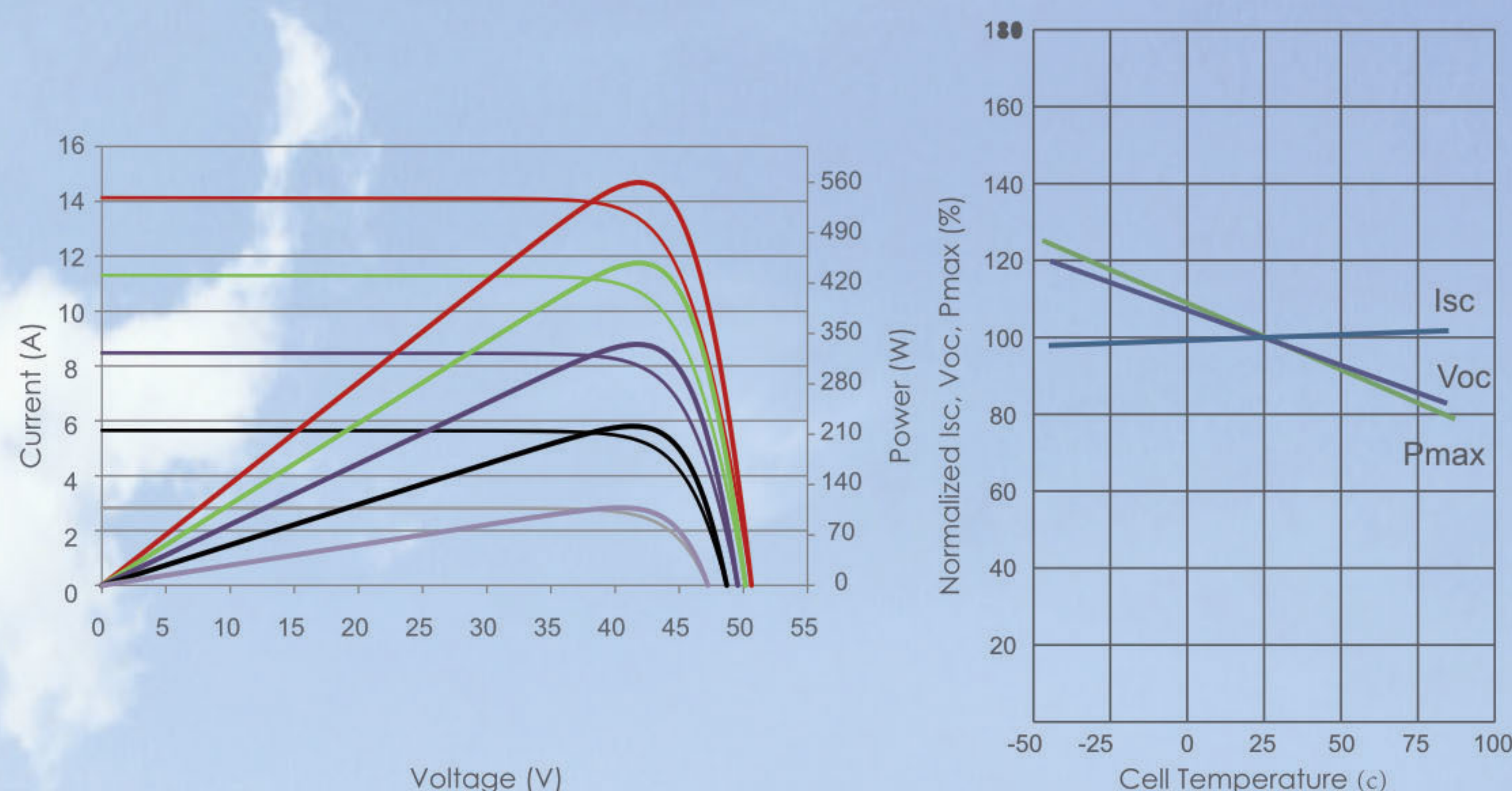


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Drawing Only for Reference



Electrical Characteristics STC	560	565	570	575	580
Maximum Power (Pmax)	560W	565W	570W	575W	580W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	21.68%	21.87%	22.07%	22.23%	22.45%
Maximum Power Current (Imp)	13.16A	13.21A	13.27A	13.32A	13.38A
Maximum Power Voltage (Vmp)	42.55V	42.77V	42.95V	43.17V	43.35V
Short Circuit Current (Isc)	13.93A	13.99A	14.05A	14.11A	14.17A
Open Circuit Voltage (Voc)	51.02V	51.25V	51.48V	51.71V	51.94V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics NOCT	560	565	570	575	580
Maximum Power (Pmax)	424W	428W	432W	436W	440W
Maximum Power Current (Imp)	10.61A	10.65A	10.70A	10.74A	10.79A
Maximum Power Voltage (Vmp)	39.96V	40.19V	40.37V	40.60V	40.78V
Short Circuit Current (Isc)	11.23A	11.28A	11.33A	11.38A	11.42A
Open Circuit Voltage (Voc)	48.59V	48.83V	49.07V	49.31V	49.59V

NOCT, Irradiance of 800W/m², AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

Electrical Characteristics with 21% rear side power gain	560	565	570	575	580
Maximum Power (Pmax)	678W	684W	690W	696W	702W
Maximum Power Current (Imp)	15.92A	15.98A	16.06A	16.12A	16.19A
Maximum Power Voltage (Vmp)	42.55V	42.77V	42.95V	43.17V	43.35V
Short Circuit Current (Isc)	16.86A	16.93A	17.00A	17.07A	17.15A
Open Circuit Voltage (Voc)	51.02V	51.25V	51.48V	51.71V	51.94V

Mechanical Characteristics

Cell Type	MonoN-Type, 182x182(±1)mm, 144(6x24)Half-Cut cells
Glass	2mm+2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	1P68 Rated, With Bypass Diodes
Dimension	2278x1134x30mm
Output Cable	4 mm ² (EU), 300 mm, length can be customized
Weight	32.8kg
Installation Hole Location	See Drawing Above

Packing Information

Container	40' HQ
Pallets per Container	20
Pieces per Container	720

Characteristics

Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Pmax	-0.31%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C

Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Maximum Ratings

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A