

Photovoltaic Manufacturing Syrian Company

PhSBFM10-72 550-580W

22.6% **P-Type** **144 Pieces**
Panel Efficiency Bifacial Module Half-Cell

High Conversion Efficiency

Module efficiency up to 22.6% achieved through advanced cell technology and manufacturing process

Excellent Weak Light Performance

More power output in weak light condition, such as cloudy days, morning and sunsets

High Reliability

3 stages of (EL test)

Quality Guarantee

High module QUALITY ensures long-term Reliability



Made In Syria

Investments



Industrial Solar
Systems



Off-Grid Systems

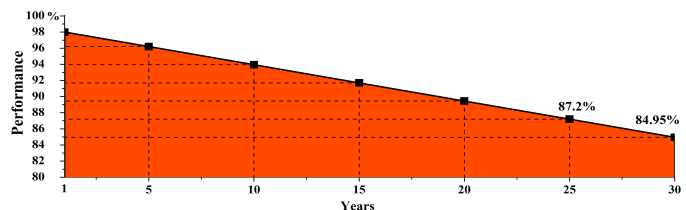


Solar Power Plants



Agricultural Solar
Systems

LINEAR PERFORMANCE WARRANTY



- **10 Years** product warranty
- **30 Years** warranty for extra linear power output
- **Performance Degradation :**
 - < **2.0 %** in the first year
 - < **0.45 %** / year in 2-30 years

Material Characteristics

Cell type	Mono PERC 182mm
Cell per Module	144 Halfcell
Junction Box	IP68, 3 bypass diode
Output Cable	4mm ²
Connector	MC4, With dust cover
Encapsulant Material	EVA (EPE)
Front Cover	3.2mm A.R High Transmission Tempered Glass
Back Cover	Transparent Backsheet
Cable length	(50 cm) , (80 cm) , (120 cm)
Frame	Anodized Aluminum (Silver)

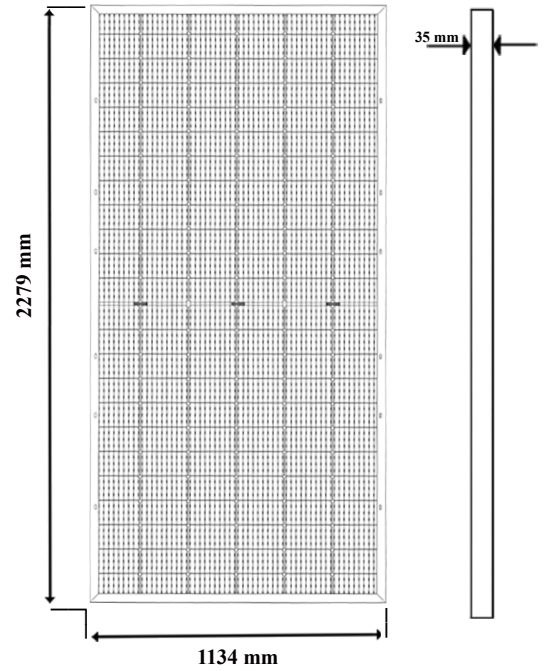
Physical Characteristics

Dimensions	2279x1134x35 mm
Weight	28.9 kg

Operating Parameters

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1500V
Maximum Series Fuse Rating	30 A
Bifaciality	70 ±5%
Fire Resistance	IEC Class C
Power Output Tolerance	0 ~ +2%

Module Dimensions



Electrical Characteristics @ STC (Irradiance 1000 W/m², Cell Temperature 25 °C, AM 1.5)

	550	560	570	580
Max Power at STC /Pmax (W)	550	560	570	580
Power Tolerance (W)	0 ~ +10 WATT			
Optimum Operating Voltage /Vmp (V)	44.06	44.28	44.51	44.73
Optimum Operating Current /Imp (A)	12.70	12.84	12.99	13.13
Open Circuit Voltage /Voc (V)	49.80	50.07	50.34	50.60
Short Circuit Current Isc (A)	13.37	13.52	13.67	13.82
Module Efficiency η' (%)	21.5	21.9	22.2	22.6

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.

Rear side Power Gain	550	560	570	580
5%	577.5	588	598	609
15%	632.5	644	655.5	667
25%	687.5	700	712.5	725

Temperature Characteristics

Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.048%/°C

Mechanical Load^(*)

Max Static Load (Front)	5400 Pa
Max Static Load (Back)	2400 Pa
Dynamic Load	1000 Pa

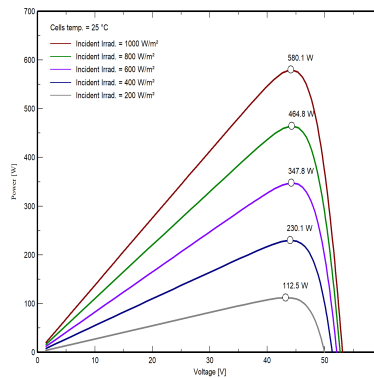
Packaging

Modules per Pallet	30 pcs/pallet
40 Feet High-Cube Container	620 Modules

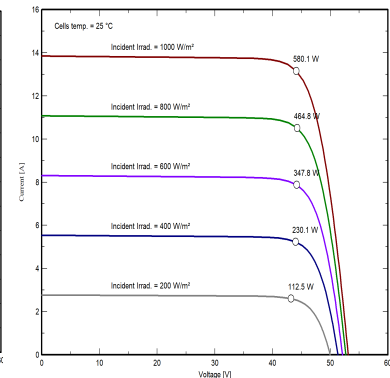
- Measurement Tolerance at STC: ±3%.

- Datasheet Updates: The datasheet may be revised without prior notification, always ensure you access the latest version for accurate information.

- (*) Caution: For professional use only, the installation, handling, and cleaning of PV modules demand specialized expertise and should exclusively be carried out by qualified professionals.



Current-Voltage Curves (580W)



Power-Voltage Curves (580W)