

425~445W M10 solar modules Aquaman series Mono SMBB TopCon large size half cut bifacial double glass module

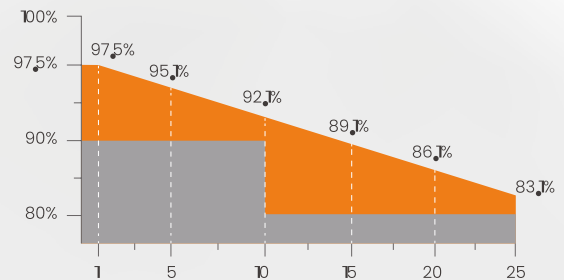
Excellent technical advantages and system design scheme to achieve high reliability, power generation effective gain and EPC cost reduction.

Products can match different installation conditions, taking into account high adaptability and high compatibility.

With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.

Certification

IEC61215/IEC61730
ISO9001:Quality Management System
ISO14001:Environmental Management System
ISO45001:Occupational Health and Safety Management System



Linear performance warranty



Product warranty



Light weight



Exceptional PID Resistance



Salt mist resistance/Ammonia resistance /dust and hail resistance



Production process reliability test



0~+5W Positive Tolerance



Lower LID / LETID



Reduce BOS cost increase ROI



Non-destructive cutting

Technical Data

Artikelnummer	991105690					
Type	Glass-Glass NHLPro 430W Black frame (30mm)		Glass-Glass NHLPro 440W Black frame (30mm)		Glass-Glass NHLPro 445W Black frame (30mm)	
Module Efficiency (%)	21.54		22.05		22.3	
Tolerance (W)	0 ~ +5		0 ~ +5		0 ~ +5	
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power Pmax(W)	430	324.39	440	331.93	445	335.70
Open Circuit Voltage Voc(V)	38.56	36.83	39.02	37.27	39.25	37.49
Short Circuit Current Isc(A)	14.26	11.51	14.42	11.64	14.50	11.71
Maximum Power Voltage Vm(V)	31.86	29.90	32.24	30.25	32.43	30.43
Maximum Power Current Im(A)	13.50	10.89	13.65	11.01	13.73	11.07
Cell Type (mm)	M10 TopCon					
Number of Cells (Pcs)	108(6×18)					
Maximum System Voltage (V)	DC1500					
Temp.Coeff.of Voc (%/°C)	-0.29					
Temp.Coeff.of Isc (%/°C)	0.045					
Temp.Coeff.of Pm (%/°C)	-0.25					
Operating Temperature (°C)	-40 to 85					
Nominal Operating Cell Temperature(NOCT) (°C)	45±2					
Max.Series Fuse (A)	30					
Pressure Bearing (Pa)	5400					
Wind Bearing	2400					

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s

Different backside power gains(430W)	10%	15%	20%	25%
Peak Power Pmax(W)	473	494.5	516	537.5
Open Circuit Voltage Voc(V)	38.57	38.59	38.60	38.61
Short Circuit Current Isc(A)	15.68	16.39	17.10	17.80
Maximum Power Voltage Vm(V)	31.87	31.88	31.89	31.9
Maximum Power Current Im(A)	14.85	15.52	16.19	16.85

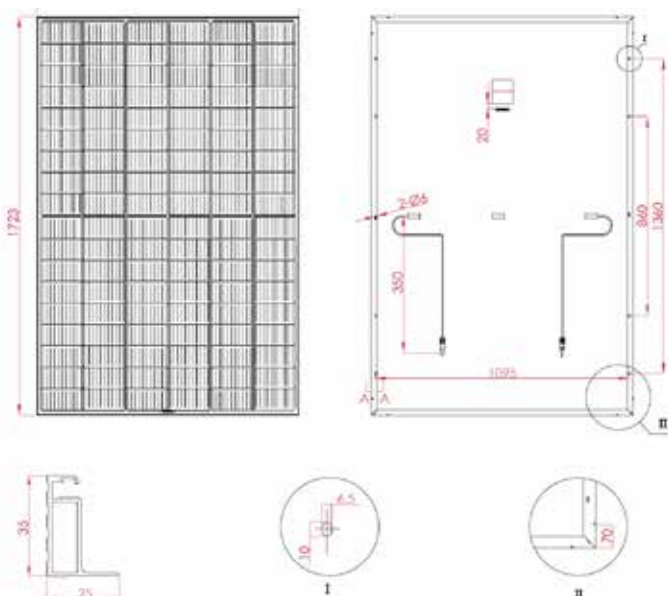
Material details

Frame	Anodized aluminum	Cable&Connector	4mm ² , EVO2 or EVO2 compatible
Cell	6×18pcs mono solar cell	Junction Box	IP≥68, TÜV&UL
Glass	2×1.6mm Anti-Reflection Coating Heat Strengthened Glass	Net length of cable	1200mm or as customer's requirements

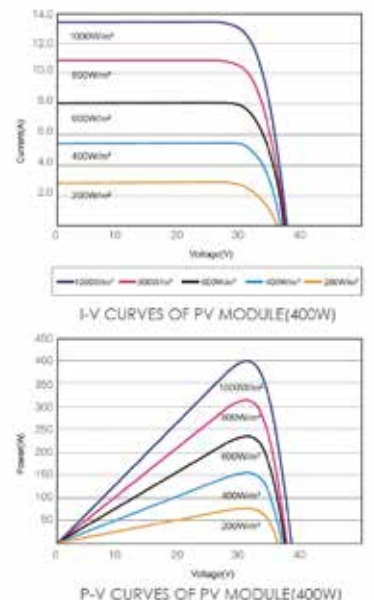
Packing details

Dimension	1723×1133×30mm	Weight	20kg
Loading Capacity	936pcs/40HC	Packing	36pcs/pallet

Engineering drawings



Iv curves



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