

## Technical Data

Artikelnummer	9911056825		9911056835			
Type	NHLPro 420W Black frame (35mm)		NHLPro 430W Black frame (35mm)		NHLPro 440W Black frame (35mm)	
Module Efficiency (%)	21.51		22.03		22.54	
Tolerance (W)	0 ~ +5		0 ~ +5		0 ~ +5	
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power Pmax(W)	420	316.8	430	324.4	440	331.9
Open Circuit Voltage Voc(V)	38.15	36.44	38.61	36.88	39.07	37.32
Short Circuit Current Isc(A)	14.08	11.37	14.24	11.49	14.41	11.63
Maximum Power Voltage Vm(V)	31.52	29.58	31.9	29.93	32.28	30.29
Maximum Power Current Im(A)	13.33	10.75	13.48	10.87	13.64	11.00
Cell Type (mm)	MBB-Mono-Crystalline Silicon					
Number of Cells (Pcs)	108(6×18)					
Maximum System Voltage (V)	DC1500					
Temp.Coeff.of Voc (%/°C)	-0.249					
Temp.Coeff.of Isc (%/°C)	0.045					
Temp.Coeff.of Pm (%/°C)	-0.3					
Operating Temperature (°C)	-40 to 85					
Nominal Operating Cell Temperature(NOCT) (°C)	45±2					
Max.Series Fuse (A)	25					
Pressure Bearing (Pa)	5400					
Wind Bearing	2400					

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s

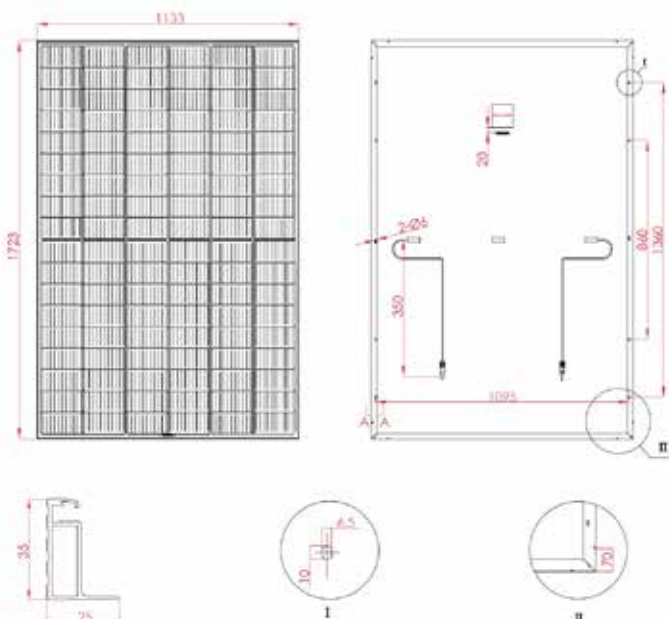
### Material details

Frame	Anodized aluminum	Glass	3.2mm low-iron tempered suede glass
Cell	6×18pcs mono solar cell	Junction Box	IP≥68, TÜV&UL
Diode quantity	3	Cable&Connector	4mm <sup>2</sup> , EVO2 or EVO2 compatible
Cable length	350mm or as customer's requirements		

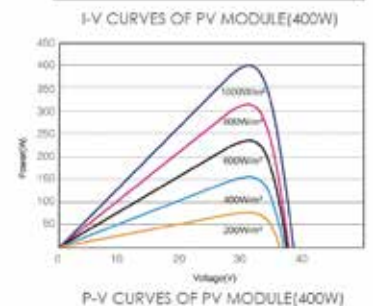
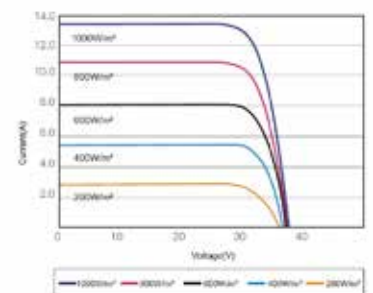
### Packing details

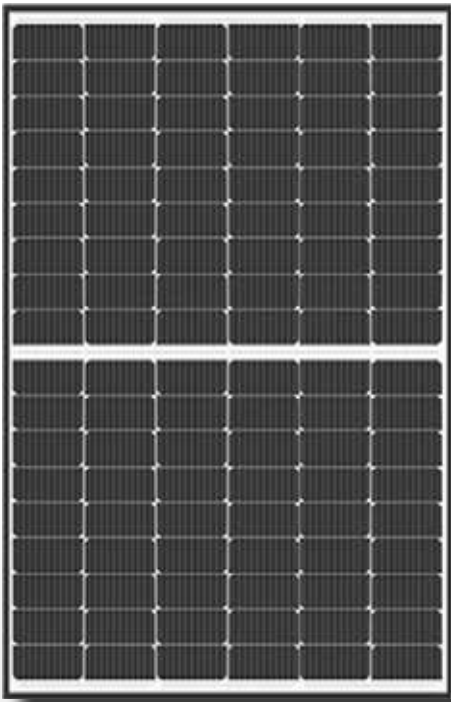
Dimension	1723×1133×30mm	Weight	20kg
Loading Capacity	936pcs/40HC	Packing	36pcs/pallet

## Engineering drawings



## Iv curves



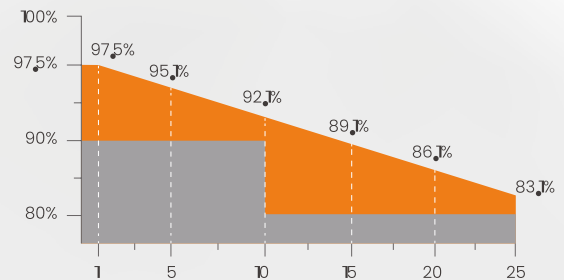


## 560~580W M10 solar modules Aquaman series Mono MBB N-type large size half cut module

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

-  PID Resistance
-  Salt mist resistance/Ammonia resistance/dust and hail resistance
-  Production process reliability test
-  0~+5W Positive Tolerance
-  Mono MBB half cut
-  Reduce BOS cost increase ROI
-  Non-destructive cutting
-  All black BIPV