










# 405~425W

**M10 solar modules** Aquaman series  
 Mono MBB per large size half cut module

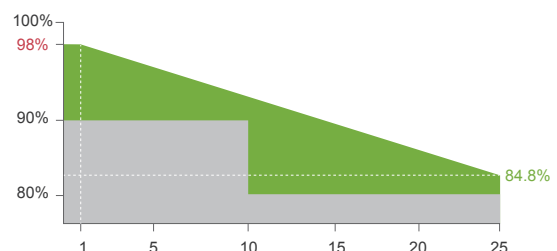
Excellent technical advantages and system design scheme to achieve high reliability, power generation effective gain and EPC cost reduction. Products can match different installation conditions, taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.

## MODULE CHARACTER

-  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

## CERTIFICATION

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



Linear performance warranty



Product warranty

Official distributor:



P.I. Riu, Cno. del Riu, s/n  
 03420 Castalla (Alicante) Spain

Phone 965 560 025 / 671 680 080

bornay@bornay.com  
 www.bornay.com

Module Type	SR-54M405HLPPro		SR-54M410HLPPro		SR-54M415HLPPro		SR-54M420HLPPro		SR-54M425HLPPro	
Module Efficiency (%)	20.75		21.01		21.26		21.52		21.76	
Tolerance (W)	0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5	
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power Pmax(W)	405	301.41	410	305.13	415	308.86	420	312.58	425	316.30
Open Circuit Voltage Voc(V)	37.24	35.15	37.47	35.37	37.70	35.58	37.93	35.80	38.16	36.02
Short Circuit CurrentIsc(A)	13.86	11.15	13.96	11.27	14.04	11.34	14.13	11.41	14.21	11.47
Maximum Power Voltage Vm(V)	30.74	28.60	30.93	28.78	31.12	28.95	31.31	29.13	31.5	29.31
Maximum Power CurrentIm(A)	13.17	10.49	13.26	10.60	13.34	10.67	13.42	10.73	13.5	10.80
Cell Type (mm)	MBB(Mono-Crystalline Silicon)									
Number of Cells (Pcs)	108(6×18)									
Maximum System Voltage (V)	DC1500									
Temp.Coeff.of Voc (%/°C)	-0.282									
Temp.Coeff.of Isc (%/°C)	0.05									
Temp.Coeff.of Pm (%/°C)	-0.348									
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 (Pa)	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

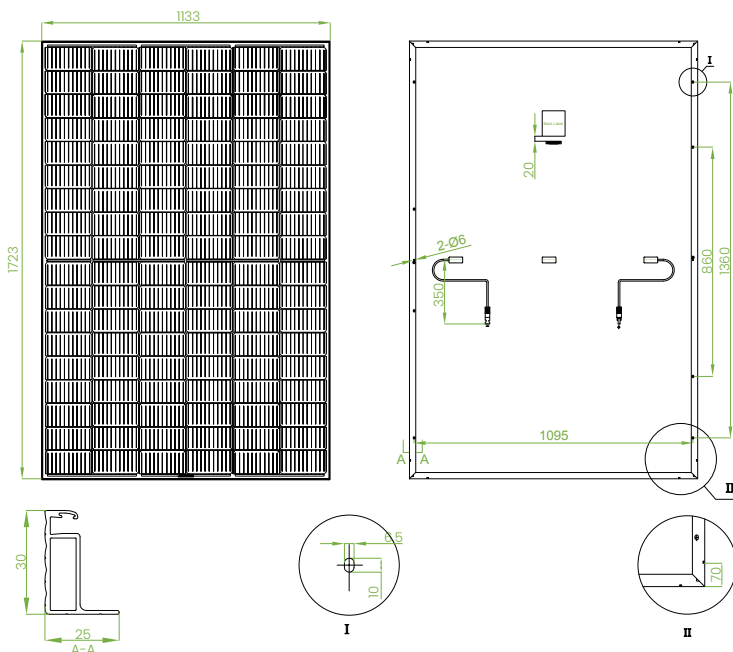
**MATERIAL DETAILS**

Frame	Anodized aluminum	Net length of Cable	350mm or as customer's requirements
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
Glass	3.2mm Anti-Reflection Coating Heat Strengthened Glass		

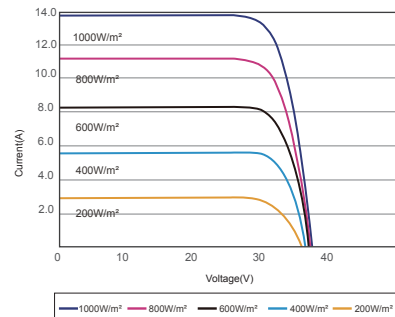
**PACKING DETAILS**

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

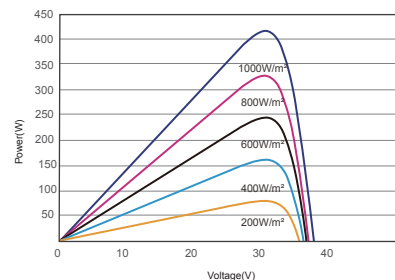
**ENGINEERING DRAWINGS**



**IV CURVES**



I-V CURVES OF PV MODULE(415W)



P-V CURVES OF PV MODULE(415W)