

490~505W

M10 solar modules Aquaman series Mono SMBB TOPCon large size half cut full black module










Overview

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.

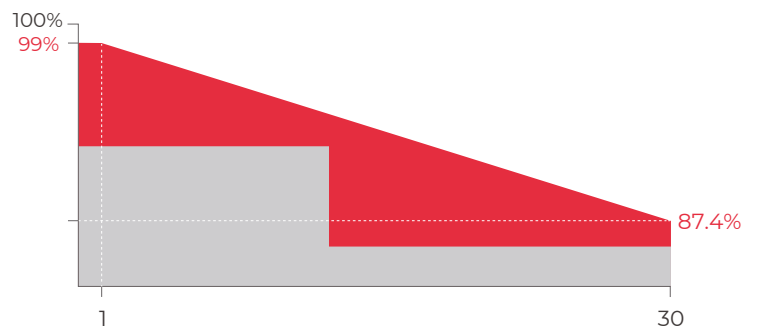


Module Character

-  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

Certification

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



Linear performance warranty



Product warranty

SUNRISE ENERGY

▲ If any update, Sunrise would not make further notice. Sunrise reserves the right of final interpretation.



SR-60MNHLE Pro 490w-505w Aquaman series

Module Type	SR- 60M 490NHL Pro		SR- 60M 495NHL Pro		SR- 60M 500NHL Pro		SR- 60M 505NHL Pro	
	21.98		22.2		22.43		22.65	
Module Efficiency (%)	21.98		22.2		22.43		22.65	
Tolerance (W)	0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5	
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power Pmax(W)	490	369.65	495	373.42	500	377.20	505	380.97
Open Circuit Voltage Voc(V)	43.27	41.33	43.49	41.54	43.71	41.75	43.92	41.95
Short Circuit Current Isc(A)	14.48	11.69	14.55	11.75	14.63	11.81	14.70	11.87
Maximum Power Voltage Vm(V)	35.75	33.55	35.93	33.71	36.11	33.88	36.29	34.05
Maximum Power Current Im(A)	13.71	11.06	13.78	11.11	13.85	11.17	13.92	11.22
Cell Type (mm)	M10 TOPCon							
Number of Cells (Pcs)	120(6×20)							
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 (Pa)	2400							

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5
NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s

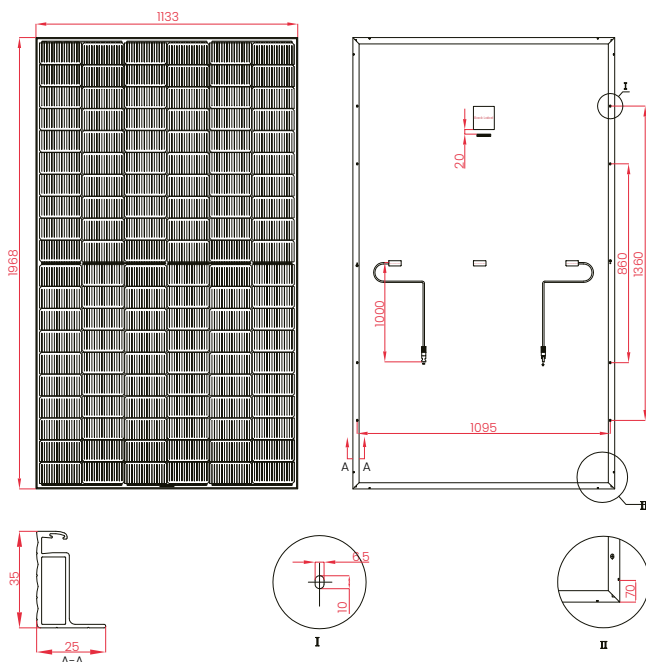
MATERIAL DETAILS

Frame	Anodized aluminum	Net length of Cable	1000mm or as customer's requirements
Cell	6×20pcs mono solar cell	Junction Box	IP≥68, TÜV & UL
Diode quantity	3	Cable&Connector	4mm ² , EVO2 or EVO2 compatible
Glass	3.2mm Anti-Reflection Coating Heat Strengthened Glass		

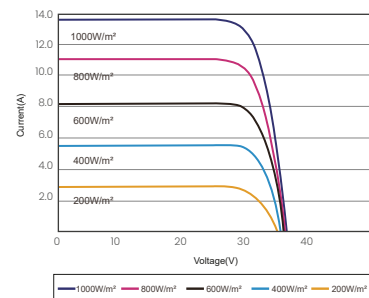
PACKING DETAILS

Dimension	1968×1133×35mm	Weight	23.7kg
Loading Capacity	744pcs/40HC	Packing	31pcs/pallet

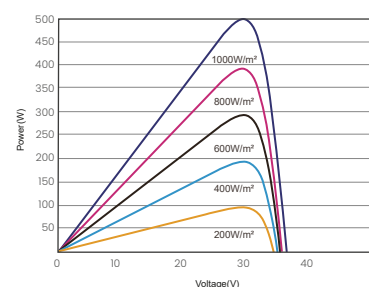
Engineering Drawings



IV Curves



I-V CURVES OF PV MODULE(500W)



P-V CURVES OF PV MODULE(500W)