



490w~510w

Aquaman series

Mono MBB perc 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

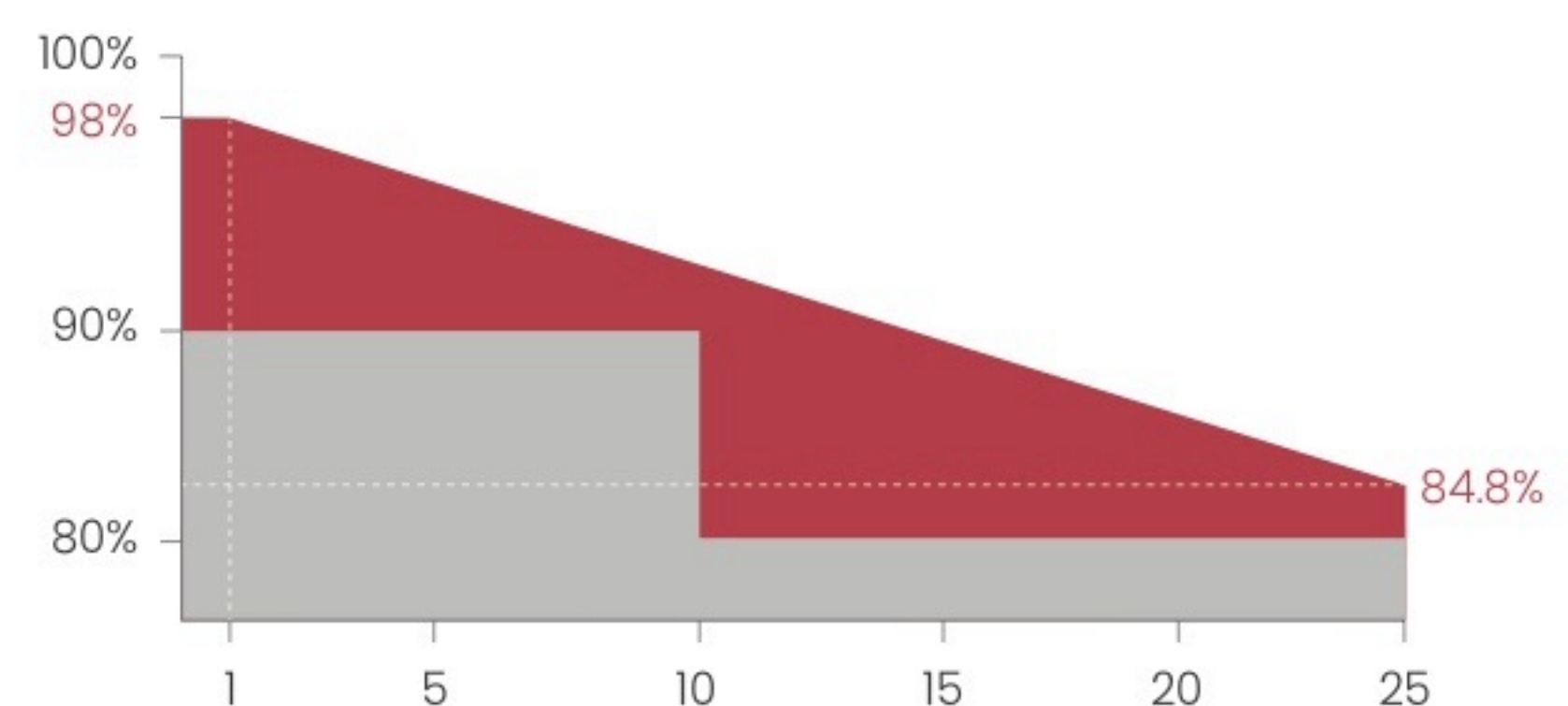
CERTIFICATION

IEC61215/IEC61730

ISO9001:Quality Management System

ISO14001:Environmental Management System

ISO45001:Occupational Health and Safety Management System



Linear performance warranty



Product warranty



490w-510w Aquaman series

Module Type	M490HLPro		M495HLPro		M500HLPro		M505HLPro		M510HLPro	
Module Efficiency (%)	20.67		20.88		21.09		21.3		21.51	
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)	490	364.67	495	368.39	500	372.12	505	375.84	510	379.56
Open Circuit Voltage	45.72	43.16	45.85	43.28	45.98	43.41	46.12	43.53	46.25	43.66
Short Circuit CurrentIsc(A)	13.67	11.04	13.77	11.12	13.87	11.20	13.97	11.28	14.06	11.35
Maximum Power Voltage	37.74	35.11	37.85	35.21	37.96	35.32	38.07	35.42	38.18	35.52
Maximum Power Current	12.99	10.39	13.08	10.46	13.18	10.54	13.27	10.61	13.36	10.68
Cell Type (mm)	MBB-182×91mm(Mono-Crystalline Silicon)									
Number of Cells (Pcs)	132(6×22)									
Maximum System Voltage	DC1500									
Temp.Coeff.of Voc (%/°C)	-0.282									
Temp.Coeff.of Isc (%/°C)	0.05									
Temp.Coeff.of Pm (%/°C)	-0.348									
Operating Temperature	-40 to 85									
Nominal Operating Cell Temperature(NOCT)	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

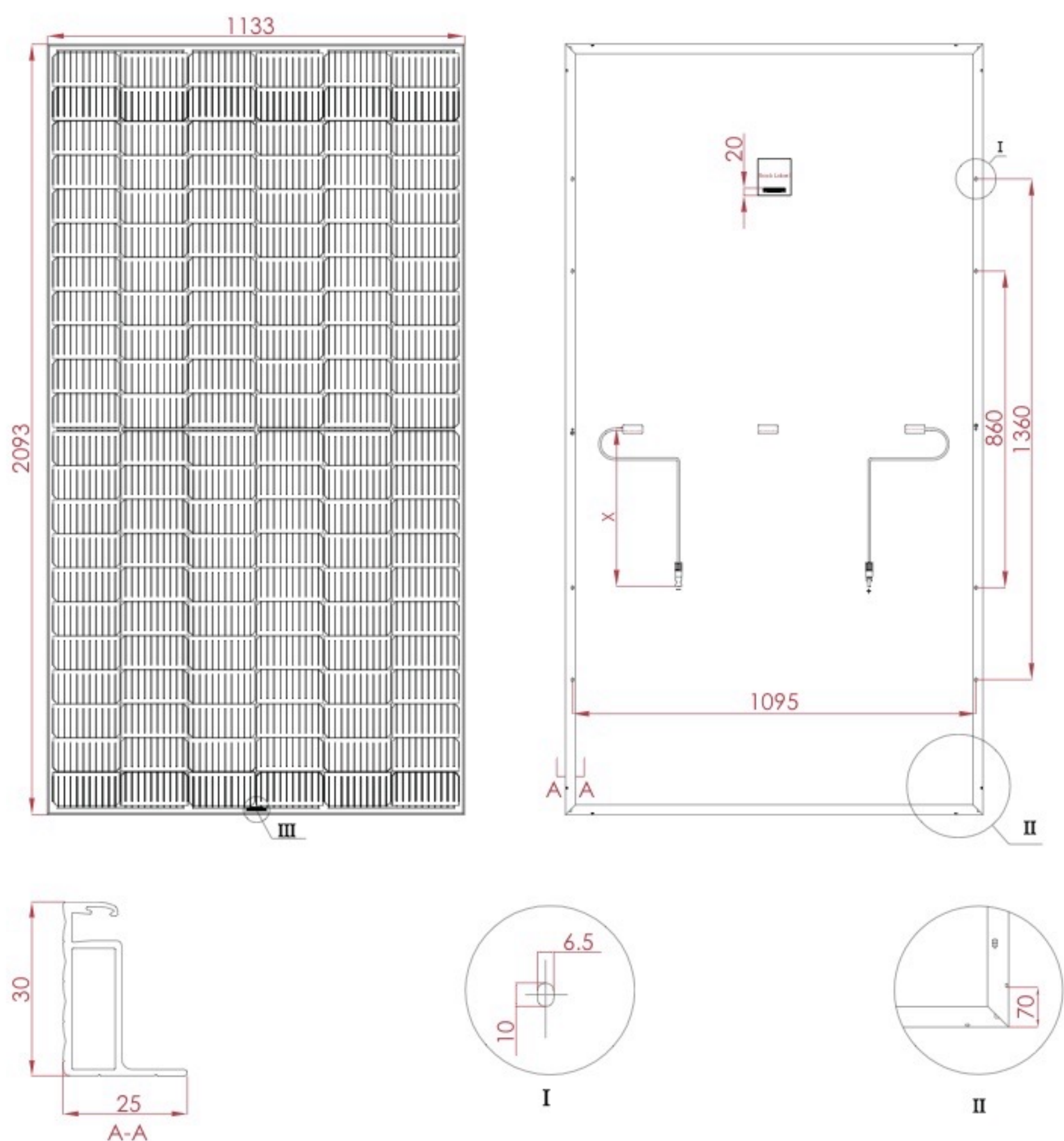
MATERIAL DETAILS

Frame	Anodized aluminum	Net length of Cable	350mm or as customer's requirements
Cell	6×22pcs mono solar cell	Junction Box	IP≥68, TÜV & UL
Diode quantity	3	Cable&Connector	4mm², EVO2 or EVO2 compatible
Glass	3.2mm Anti-Reflection Coating Heat Strengthened Glass		

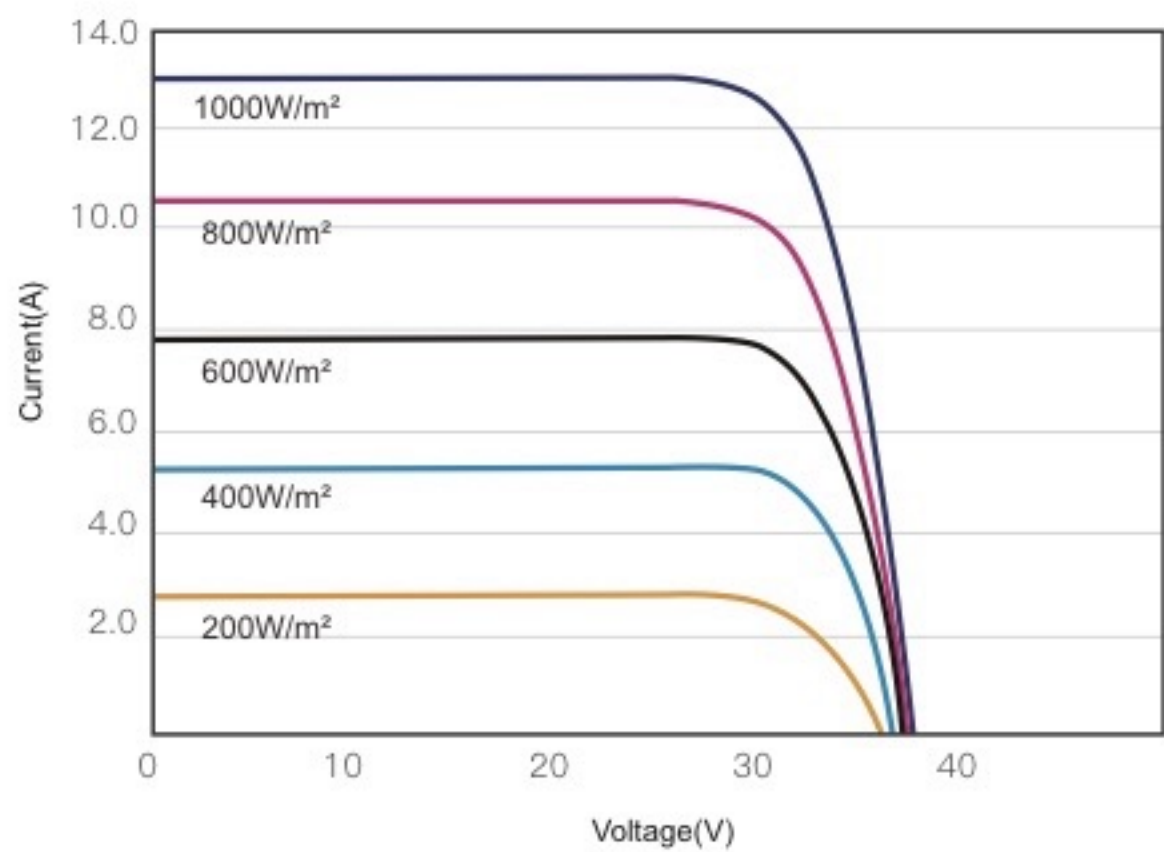
PACKING DETAILS

Dimension	2093×1133×30mm	Weight	24.5kg
Loading Capacity	792pcs/40HC	Packing	36pcs/pallet

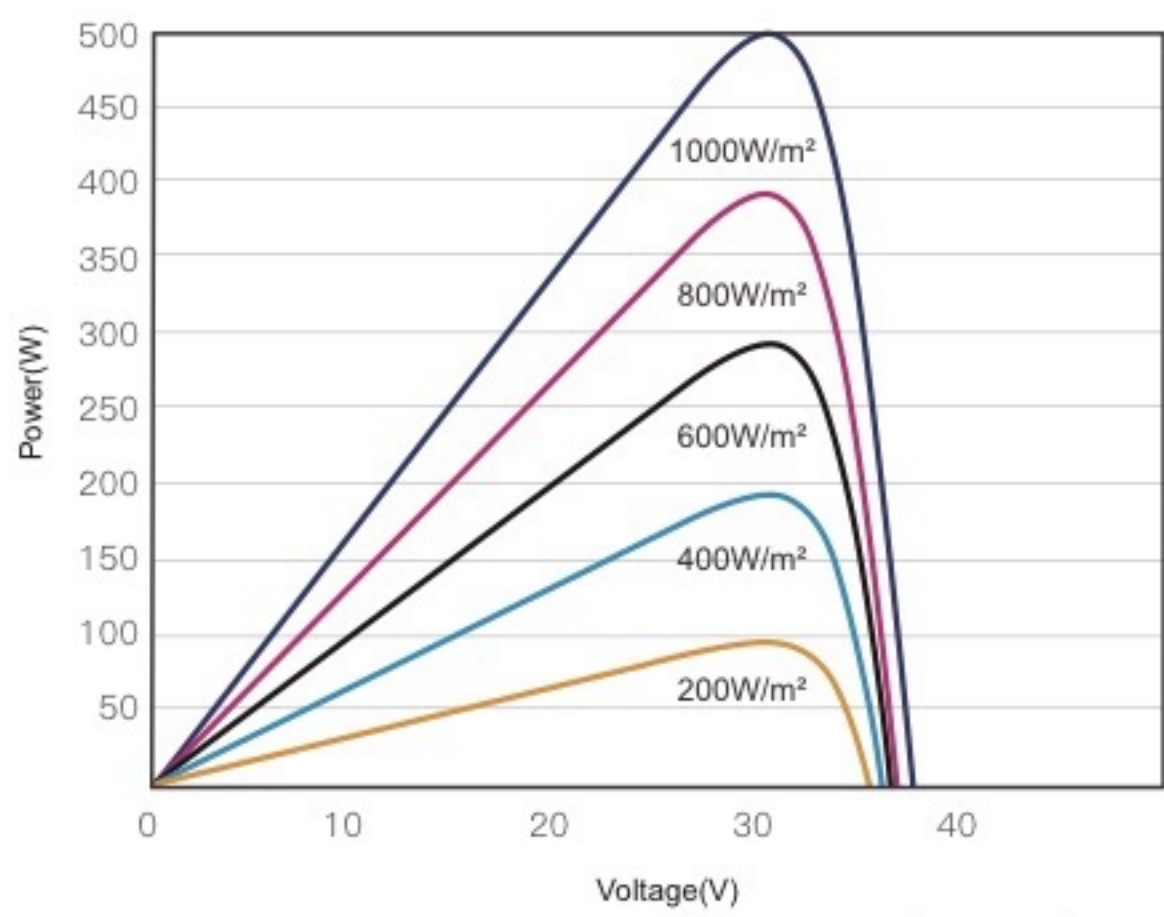
ENGINEERING DRAWINGS



IV CURVES



I-V CURVES OF PV MODULE(500W)



P-V CURVES OF PV MODULE(500W)