



FDS-M6M-72-440BF

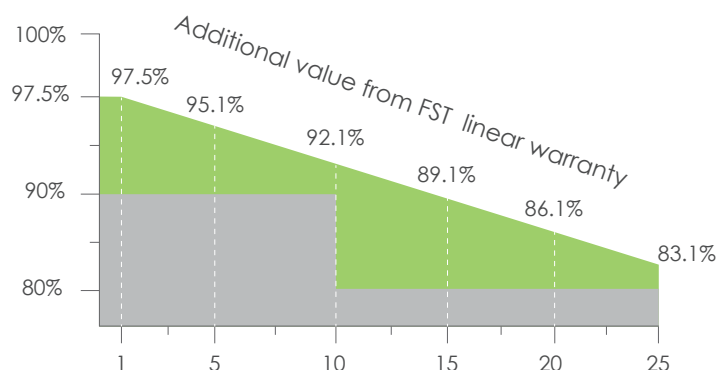
425~445W

Bifacial Plus Half Cell Mono Solar Module

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



- 25 year linear performance warranty from SUNRISE
- Standard performance warranty



double-sided cell structure



9 Bus Bar Half Cut Cell With PERC Technology



lightweight design



0~+5W Positive Tolerance



PID Resistance



Better Low-light Performance

Bifacial Plus Half Cell(6x24) Mono Solar Module

Module Type	FDS-M6M-72-425BF		FDS-M6M-72-430BF		FDS-M6M-72-435BF		FDS-M6M-72-440BF		FDS-M6M-72-445BF	
Test Environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Tolerance (W)	0~+5									
Module Efficiency (%)	19.56		19.79		20.02		20.25		20.48	
Maximum Power Pmax(W)	425	314.73	430	318.43	435	322.14	440	325.84	445	329.54
Open Circuit Voltage Voc(V)	49.15	45.83	49.39	46.05	49.64	46.28	49.88	46.51	50.12	46.73
Short Circuit Current Isc(A)	11.05	8.88	11.12	8.93	11.2	9	11.27	9.05	11.34	9.11
Maximum Power Voltage Vm(V)	40.38	37.34	40.58	37.52	40.78	37.71	40.98	37.89	41.18	38.08
Maximum Power Current Im(A)	10.53	8.43	10.6	8.48	10.67	8.54	10.74	8.6	10.81	8.65
Cell Type (mm)	166×83(9BB Mono-Crystalline Silicon)									
Number of Cells (Pcs)	144(6×24)									
Maximum System Voltage (V)	DC1500									
Temp.Coeff.of Voc (%/°C)	-0.285									
Temp.Coeff.of Isc (%/°C)	0.055									
Temp.Coeff.of Pm (%/°C)	-0.365									
Operating Temperature (°C)	-40 to 85									
Nominal Operating Cell Temperature(NOCT) (°C)	45±2									
Max.Series Fuse (A)	20									
Pressure Bearing (Pa)	5400									
Wind Bearing (Pa)	2400									

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

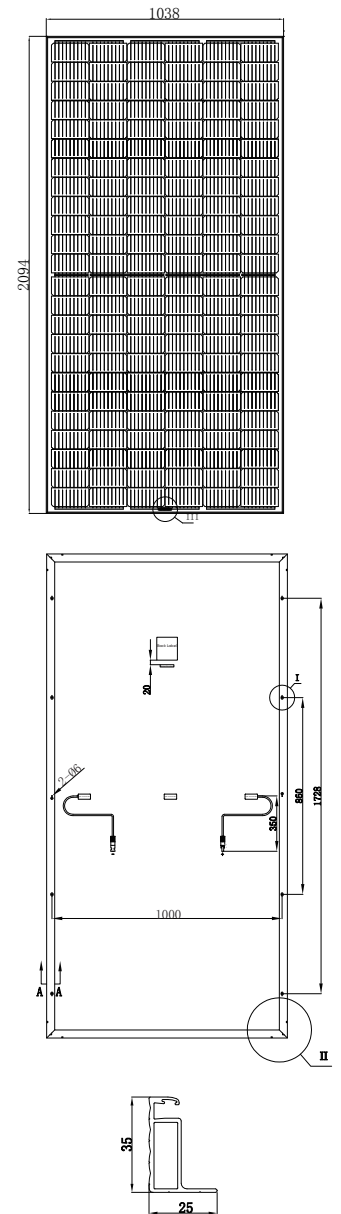
NOCT: Irradiance 800W/m2, Ambient temperature 20°C, Wind speed 1m/s

DIFFERENT BACKSIDE POWER GAINS(440W)		10%	15%	20%	25%
Peak Power	Pmax(W)	484	506	528	550
Open Circuit Voltage	Voc(V)	48.73	48.74	48.75	47.57
Short Circuit Current	Isc(A)	12.55	13.11	13.67	14.6
Maximum Power Voltage	Vm(V)	40.98	40.99	41	40.01
Maximum Power Current	Im(A)	11.82	12.35	12.88	13.75

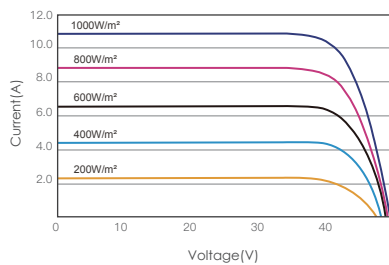
MATERIAL DETAILS	
Frame	Anodized aluminum
Glass	3.2mm low-iron tempered suede glass
Cell	6×24pcs 166x83mm mono solar cell
Junction Box	Ip≥68,TÜV&UL
Cable&Connector	4mm², EVO2 or EVO2 compatible
Cable length	350mm or as customer's requirements

PACKING DETAILS		
Dimension	(mm)	2094×1038×35
Weight	(kg)	23.5
Loading Capacity	300 pcs / 20'GP	726 pcs/40'HC
Packing	pcs/pallet	31

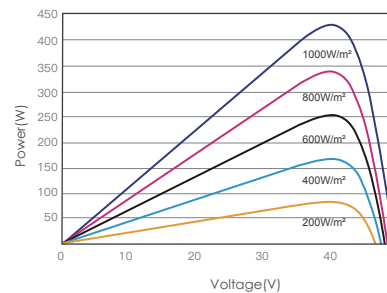
ENGINEERING DRAWINGS



IV CURVES



I-V CURVES OF PV MODULE(435W)



P-V CURVES OF PV MODULE(435W)