

460-500 Watt MONO CRYSTALLINE MODULE

Positive power tolerance of 0~+5W

ISO9001:2008, ISO14001:2004
certified factory.
IEC61215, IEC61730 certified products.



KEY FEATURES



5 Busbar Solar Cell:

No power loss thanks to improved temperature co-efficient caused by 5 Busbar solar cell



High Power Output:

Up to 500W and 19.51% efficiency, highest performing module of its kind on the market



PID RESISTANT:

Excellent Anti-PID performance guarantee limited power degradation for mass production



Low-light Performance:

Excellent performance in low-light environments

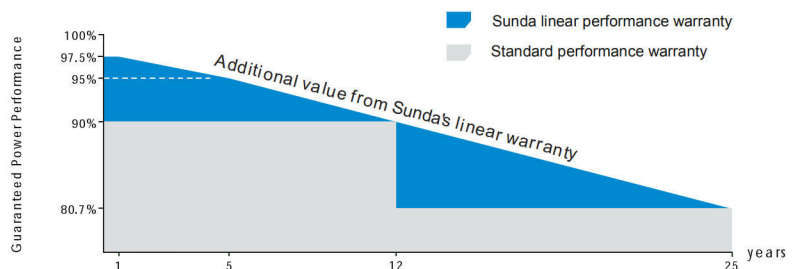


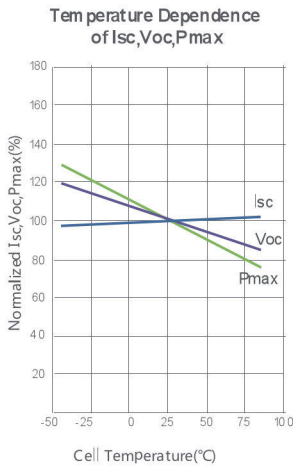
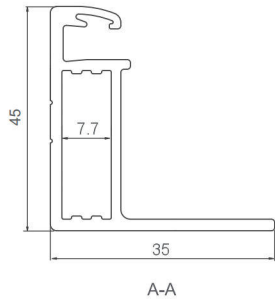
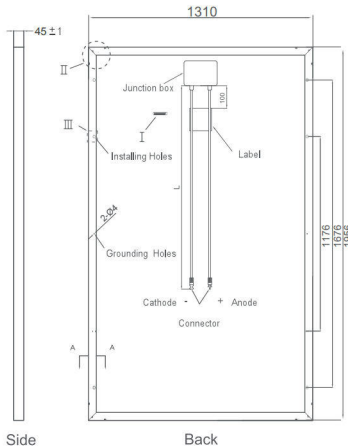
Severe Weather Resilience:

Certificated to bear 2,400Pa wind load and 5,400Pa snow load

LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 30 Year Linear Power Warranty





ELECTRICAL DATA(STC)

Module model	SD-96-460M	SD-96-470M	SD-96-480M	SD-96-490M	SD-72-500M
Max.Power- P_{max} (Wp)	460	470	480	490	500
Max.Power Voltage- V_{mp} (V)	50.4	50.8	51.2	51.7	52.2
Max.Power Current- I_{mp} (A)	9.13	9.25	9.37	9.47	9.57
Open-circuit Voltage- V_{oc} (V)	62.0	62.6	63.2	64.8	64.5
Short-circuit Current- I_{sc} (A)	9.59	9.72	9.85	9.96	10.07
Module efficiency(%)	17.95	18.34	18.73	19.12	19.51
Power Output Tolerance P_{max} (W)	0~+5				

STC: 1000W/m² Irradiance, 25 °C Module Temperature, AM1.5g Spectrum
 *Measuring Tolerance: +3%

ELECTRICAL DATA(NOCT)

Module model	SD-96-460M	SD-96-470M	SD-96-480M	SD-96-490M	SD-96-500M
Max.Power- P_{max} (Wp)	340	348	356	364	372
Max.Power Voltage- V_{mp} (V)	48.0	48.4	48.8	49.3	49.8
Max.Power Current- I_{mp} (A)	7.08	7.19	7.30	7.38	7.47
Open-circuit Voltage- V_{oc} (V)	58.7	59.2	59.8	60.5	61.2
Short-circuit Current- I_{sc} (A)	7.68	7.80	7.92	8.03	8.12

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL CHARACTERISTICS

Solar Cells	Mono-crystalline 156.75*156.75mm(6 inch)
No.of Cells	96 (8*12)
Module Dimension	1956*1310*45mm(77.00*51.6*1.77inch)
Module Weight	28.5Kg(62.7lb)
Front Glass	3.2mm, High Transmission, Coated Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 or IP68 rated; 3 Diodes
Output Cables	TUV 1*4.0mm ² ; 900mm(1200mm available)

OPERATING CONDITIONS

Application Class	Class A
Max. system voltage	1000Vdc
Max. series fuse rating	15A
Operating temperature	-40 °C ~ +85°C

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	45 ± 2°C
Temperature Coefficient of P_{max}	-0.39%/°C
Temperature Coefficient of P_{max}	-0.29%/°C
Temperature Coefficient of P_{max}	0.048%/°C

PACKING DETAILS

Module per Pallet	22PCS
Module per Stack	35PCS/40PCS
Module per 20GP/40HQ /40HQ (Max.)	175PCS/480PCS