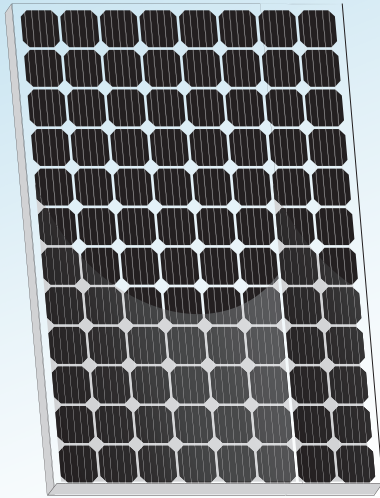
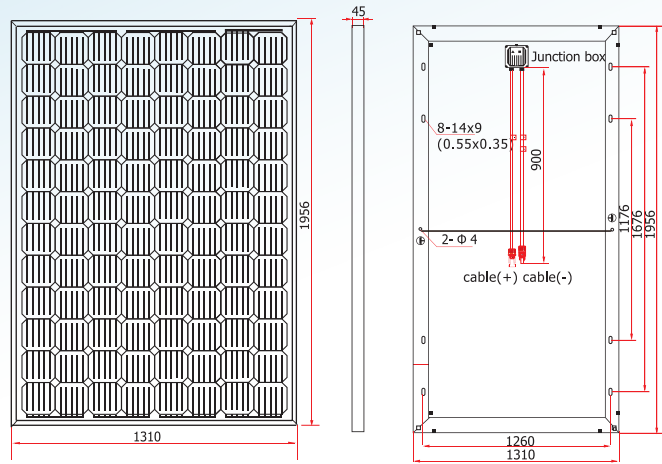


Mono-Crystalline Solar Module

450-500 Watt



PHYSICAL CHARACTERISTICS



Type		DS-450M6-96	DS-460M6-96	DS-470M6-96	DS-480M6-96	DS-490M6-96	DS-500M6-96
Power Output	Pmax(W)	450	460	470	480	490	500
Power Output Tolerance	Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Max-Power Voltage	Vmp(V)	47.87	47.98	48.26	48.34	48.42	48.63
Max-Power Current	Imp(A)	9.40	9.59	9.74	9.93	10.12	10.28
Open-Circuit Voltage	Voc(V)	58.57	58.75	58.82	58.89	58.95	59.01
Short-Circuit Current	Isc(A)	9.73	9.78	9.90	10.04	10.67	10.87
Cell Efficiency	(%)	20.00	20.40	20.80	21.30	21.70	22.20
Module Efficiency	(%)	17.56	17.95	18.34	18.73	19.12	19.51

THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT(°C)	45±2
Temperature Coefficients of Pmax	(%/°C)	-0.438
Temperature Coefficients of Voc	(%/°C)	-0.297
Temperature Coefficients of Isc	(%/°C)	0.037

OPERATING CONDITIONS

Maximum System Voltage	(VDC)	1000V(IEC)
Maximum Series Fuse	(A)	20
Operating Temperature	(°C)	-40~+85
Maximum Load(snow/wind)		5400pa/2400pa

MECHANICAL CHARACTERISTICS

Solar cells(type/dimension)	Mono-Crystalline Silicon/156mm*156mm
Cells number	96pcs(8*12)
Front cover(material/thickness)	Low iron tempered glass/3.2mm
Backsheet(color)	White
Frame(material/color)	Anodized aluminum alloy
Junction box(protection degree)	≥IP65, 4 diodes
Cables/Plug Connector	Diameter 4mm ² , Length 900mm/MC4 or MC4 compatible
Module Dimension	1956×1310×45mm(With bar fixed in the middle)
Module Weight	26kg