



190W MULTICRYSTALLINE MODULES

Product Description:

Specification	
Cells	Polysilicon 156mmx156mm square
Number of cells	60 (6x10) series connected
Typical application	24V DC
Maximum voltage	1000V DC
Size	1640(L) x992(W) x35(H) mm
Weight	22 Kgs
Front glass	3.2 mm

Tolerance		
Parameter	Values	Unit
Operating temperature	-45 to 80	°C
Hail diameter @ 80Km/h	Up to 25	mm
Continuous wind pressure	Up to 24	m/s

Connection terminals	
Connector type	MC4

Parameter	
Model	DSP190P
Rating power (Pm)	190W
Efficiency of cell	≥13.20%
Tolerance	±3%
Rated current (Im)	6.9A
Rated voltage (Vm)	27.2V
Short circuitCurrent (Isc)	7.6A
Open circuit Voltage (Voc)	32.5V
NOCT:45°C+2 °C	Temperature coefficient Voltage: 0.16V/°C / -(160 +10)mV/oC
	Temperature coefficient of power: -(0.5+0.05)%/oC
	Temperature coefficient Current: 0.06%/°C / (0.065 +0.015)%/oC

Note: defined as standard deviation of thousands measurements. Absolute power values depend on the measuring system. They can differ by +/- 3% from one measuring system to another.

Characteristic curves	
Mechanical characteristics	
Dimensions	
Certificate	CE