SUNERGY USA WORKS LLC

Model :	
Monocrystalline silicon solar panel	SUN180-36M
Specification:	
Cell	Monocrystalline silicon solar cells
Solar Cell Efficiency	22.00%
No. of cells and connections	36(4*9)
Dimension of module (mm)	1496*676*35mm
Weight	12.5kg
Limits	
Operating temperature	-40 to+85℃
Maximum system voltage	1000V DC
Temperature and Coefficients	
Nominal Operation Cell Temperature	48℃±2℃
Current temperature coefficient (%/k)	0.06±0.01
Voltage temperature coefficient (mV/k)	-(155±10)
Power temperature coefficient (%/k)	-(0.5±0.05)
Characteristics	
Model	SUN180-36M
Panel Efficiency	17.79%
Tolerence	plus
Open circuit voltage (Voc)	22.4V
Optimum operating voltage (Vmp)	18.4V
Short circuit Current (Isc)	10.30A
Optimum operating current (Imp)	9.78A
Maximum power at STC (Pm)	180Wp

Note: Test condition are STC Irradiance 1000W/m2 with AM 1.5 spectrum, cell temperature 25°C, Test method according to IEC 904-1, Tolerance Efficiency 5% rel.

* These columns list typical value of production performance. Just for reference.

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Model :	
Monocrystalline silicon solar panel	SUN170-40M
Specification:	
Cell	Monocrystalline silicon solar cells
Solar Cell Efficiency	18.70%
No. of cells and connections	40(4*10)
Dimension of module (mm)	1640*670*35mm
Weight	13.2kg
Limits	
Operating temperature	-40 to+85℃
Maximum system voltage	1000V DC
Temperature and Coefficients	
Nominal Operation Cell Temperature	48℃±2℃
Current temperature coefficient (%/k)	0.06±0.01
Voltage temperature coefficient (mV/k)	-(155±10)
Power temperature coefficient (%/k)	-(0.5±0.05)
Characteristics	
Model	SUN180-36M
Panel Efficiency	15.47%
Tolerence	plus
Open circuit voltage (Voc)	24.15V
Optimum operating voltage (Vmp)	19.8V
Short circuit Current (Isc)	9.18A
Optimum operating current (Imp)	8.59A
Maximum power at STC (Pm)	170Wp

Note: Test condition are STC Irradiance 1000W/m2 with AM 1.5 spectrum, cell temperature 25°C, Test method according to IEC 904-1, Tolerance Efficiency 5% rel.

* These columns list typical value of production performance. Just for reference.