

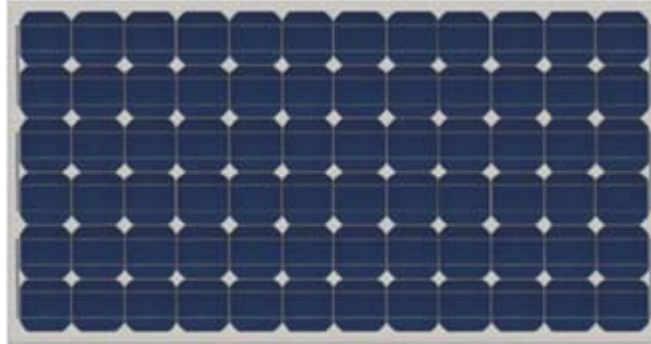
**USA Solar® monocrystalline solar photovoltaic panels**  
USM-160UL USM-165UL USM-170UL USM-175UL USM-180UL

USA Solar® monocrystalline photovoltaic panels are engineered and built to produce electrical energy at the highest efficiency level and remain the most reliable power for on-grid and off-grid residential and commercial systems. Relying on well engineered highly regulated manufacturing practices while attaining the highest standards that are in the latest in PV technology. USA Solar® modules provide the highest possible electrical energy production per silicon cell use in high quality solar PV panels. Our Cell standards are kept at extremely high efficiency starting at 16.2 -16.8 to insure the highest quality Mono Silicon photovoltaic panels.

Manufactured using a monocrystalline silicon substrate from a single large crystal, USA Solar panels offer a far superior conversion rate and extremely above average low-light performance. USA Solar® Monocrystalline solar photovoltaic panels are ideal for the most challenging conditions of military, utility, residential and commercial installations. USA Solar's monocrystalline photovoltaic modules are the ideal choice when outstanding performance and exceptional uniform appearance is required.



## Specifications



### Specifications For USM-160UL USM-165UL USM-170UL USM-175UL USM-180UL

Tolerance +/-3%

Cell Monocrystalline silicon solar cells 125\*125mm

No.of cells 72(12\*6)

Dimension of Modules (mm) 1581\*809\*40

Weight(kg) 15.5

### Limits

Operating Temperature -40~+85°C

Storage Temperature -40~+85°C

Maximum system voltage 1000 VDC max.

Hail impact: diameter of 28mm with impact speed of 86km/h

### Temperature and Coefficients

NOCT 48°C±2°C

Voltage temperature coefficient (%/K) -0.34

Current temperature coefficient (%/K) 0.09

Power temperature coefficient (%/K) -0.37

### Characteristics

Max-power voltage Vmp (V) [34.5] [35.4] [35.8] [36.1] [36.2]

Max-power current Imp (A) [4.64] [4.66] [4.75] [4.85] [4.97]

Open-circuit voltage Voc (V) [41.75] [43.6] [43.32] [43.68] [43.8]

Short-circuit current Isc (A) [5.32] [5.08] [5.38] [5.49] [5.48]

Max-power Pm (W) [160] [165] [170] [175] [180]

STC:Irradiance 1000w/m<sup>2</sup>,Module temperature 25°C,AM=1.5

Certificates : UL TUV CE ( Qualified for Canada)

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