

# MEGA 100

## 100 WATT SOLAR PANEL



### 100 WATT

MAXIMUM POWER OUTPUT

### 33 CELL

MONOCRYSTALLINE MODULE

### 0~+5W

POSITIVE POWER TOLERANCE

### 19.8%

MAXIMUM EFFICIENCY

RICH SOLAR is the leading supplier of off-grid solar equipment for RV, agriculture, off-grid housing, marine, light industrial and heavy equipment, provides solar panels and other equipment, including solar charge controllers, inverters, batteries and complete do-it-yourself solar kits.

We'd love to work with you to create the perfect solar solution for your product or industry. Lead your industry and increase product value by adding solar or making it solar-ready.

☎ 1-800-831-9889  
✉ sales@richsolar.com  
🌐 www.richsolar.com  
📍 5550 Jurupa St  
Ontario, CA 91761

## FEATURES

- 9 buss bar solar cell configuration
- Lightweight anodized aluminum frame
- High transmission, AR (anti-reflective) coated tempered glass
- Plug and play junction box
- Industry standard quick connect cables (MC4) work in series or in parallel
- Highly reliable due to stringent quality control (Over 30 in-house tests (UV, TC, HF, and many more), PID resistant, 100% EL double inspection)
- Certified to withstand challenging environmental conditions (2400 Pa wind load, 5400 Pa snow load, 35 mm hail stones at 97 km/h)
- Excellent low light performance on cloudy days, mornings and evenings

## INSTALLATION

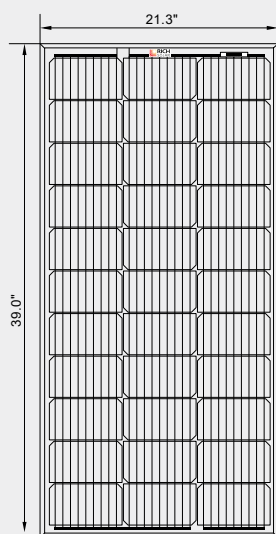
- Easy installation and handling for various applications (high-end off-grid and mobile applications)
- Pre-drilled holes compatible with ground mounts, Z brackets, pole mounts and tilt mounts
- Compatible with on-grid and off-grid inverters

## WARRANTY

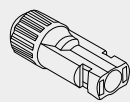
- 25 year limited power output

# MEGA 100

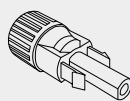
## 100 WATT SOLAR PANEL



Front Profile (unit: inch)

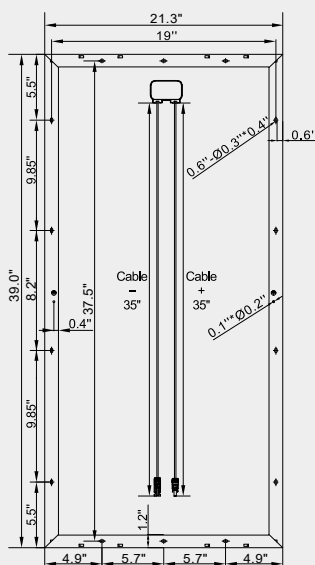


MC4 Negative



MC4 Positive

MC4 Connectors



Back Profile (unit: inch)



Side Profile

### ELECTRICAL DATA (STC)

Peak Power Watts- $P_{MAX}$ (Wp)	100 W
Power Output Tolerance- $P_{MAX}$ (W)	0~+5 W
Maximum Power Voltage- $V_{MPP}$ (V)	18.6 V
Maximum Power Current- $I_{MPP}$ (A)	5.38 A
Open Circuit Voltage- $V_{oc}$ (V)	22.8 V
Short Circuit Current- $I_{sc}$ (A)	5.78 A
Module Efficiency $\eta_m$ (%)	19.8%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 77°F, Air Mass AM1.5

### MECHANICAL DATA

Solar Cells	Monocrystalline 166 × 83 mm (6 inches)
Cell Orientation	33 cells (3 × 11)
Module Dimensions	39.0 × 21.3 × 1.2 in
Weight	15 lb (6.8 kg)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Anodized Aluminium Alloy
Junction Box	IP 65 or IP 67 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (#12 gauge), 35 inches (900 mm) Length
Connector	MC4

### TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	113 ± 35°F
Temperature Coefficient of $P_{MAX}$	-0.39%/°F
Temperature Coefficient of $V_{oc}$	-0.29%/°F
Temperature Coefficient of $I_{sc}$	0.05%/°F

### MAXIMUM RATINGS

Operational Temperature	-40 ~ +185°F
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	10A

### WARRANTY

25 year Limited Output Power Warranty

(Please refer to product warranty for details)

### CURVE CHARACTERISTICS

