

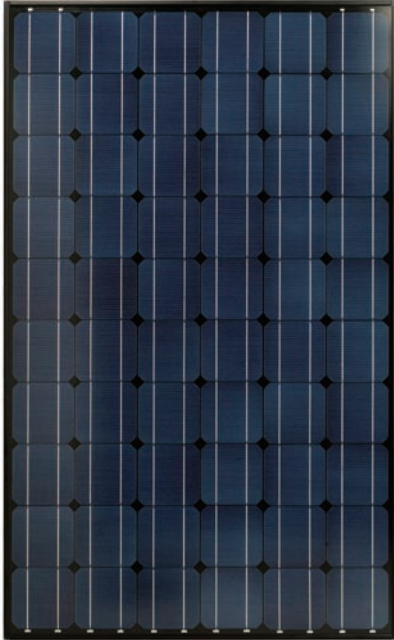
# SHARP®

solar electricity

## 235 WATT

### RESIDENTIAL MODULE

NEC 2008 Compliant



### NU-U235F4

## RESIDENTIAL 235 WATT MODULE FROM THE WORLD'S TRUSTED SOURCE FOR SOLAR.

Our most powerful residential module manufactured today, the NU-U235F4 blends high performance with advanced aesthetics. Black backsheet and sleek black frame create a modern silhouette on nearly any roof. Using breakthrough technology, made possible by nearly 50 years of proprietary research and development, this module incorporates an advanced cell surface texturing process to increase light absorption and improve efficiency. Versatile enough to permit installation on nearly any kind of roof, the 235 watt module is the newest innovation in Sharp's residential product offerings.

Sharp's highest-power residential solar module makes a beautiful addition to nearly any roof.

#### ENGINEERING EXCELLENCE

NU-U235F4 is the perfect combination of high performance and design.

#### ADVANCED AESTHETICS

Sleek, black frame module provides an elegant appearance that blends beautifully with your home's roofline.

#### DURABLE

Tempered glass, EVA lamination and weatherproof backskin provide long life and enhanced cell performance.

#### RELIABLE

25-year limited warranty on power output.

#### HIGH PERFORMANCE

This module uses an advanced solar cell surface texturing process to increase light absorption and improve efficiency.



Black frame improves aesthetics for residential roof top applications.



Laminated glass construction in a high torsion frame.

#### SHARP: THE NAME TO TRUST

When you choose Sharp, you get more than well-engineered products. You also get Sharp's proven reliability, outstanding customer service and the assurance of our 25-year limited warranty on power output. A global leader in solar electricity, Sharp powers more homes and businesses than any other solar manufacturer worldwide.

**BECOME POWERFUL**

# 235 WATT

## NU-U235F4

NEC 2008 Compliant

Module output cables: 12 AWG PV Wire

### ELECTRICAL CHARACTERISTICS

|                                |                         |
|--------------------------------|-------------------------|
| Maximum Power (Pmax)*          | 235 W                   |
| Tolerance of Pmax              | +10%/-5%                |
| Type of Cell                   | Monocrystalline silicon |
| Cell Configuration             | 60 in series            |
| Open Circuit Voltage (Voc)     | 37.0 V                  |
| Maximum Power Voltage (Vpm)    | 30.1 V                  |
| Short Circuit Current (Isc)    | 8.50 A                  |
| Maximum Power Current (Ipm)    | 7.81 A                  |
| Module Efficiency (%)          | 14.4%                   |
| Maximum System (DC) Voltage    | 600 V                   |
| Series Fuse Rating             | 15 A                    |
| NOCT                           | 47.5°C                  |
| Temperature Coefficient (Pmax) | -0.485%/°C              |
| Temperature Coefficient (Voc)  | -0.351%/°C              |
| Temperature Coefficient (Isc)  | 0.053%/°C               |

\*Illumination of 1 kW/m<sup>2</sup> (1 sun) at spectral distribution of AM 1.5 (ASTM E892 global spectral irradiance) at a cell temperature of 25°C.

### MECHANICAL CHARACTERISTICS

|                              |   |
|------------------------------|---|
| Dimensions (A x B x C below) | 39.1" x 64.6" x 1.8"/994 x 1640 x 46 mm |
| Cable Length (G)             | 43.3"/1100 mm                           |
| Output Interconnect Cable**  | 12 AWG with MC4 Locking Connector       |
| Weight                       | 41.9 lbs / 19.0 kg                      |
| Max Load                     | 50 psf (2400 Pascals)                   |
| Operating Temperature (cell) | -40 to 194°F / -40 to 90°C              |

\*\*A safety lock clip (Multi Contact part number PV-SSH4) may be required in readily accessible locations per NEC 2008 690.33 (C)

\*\*PV Wire per UL Subject 4703

### QUALIFICATIONS

|             |         |
|-------------|---------|
| UL Listed   | UL 1703 |
| Fire Rating | Class C |



### WARRANTY

25-year limited warranty on power output  
Contact Sharp for complete warranty information

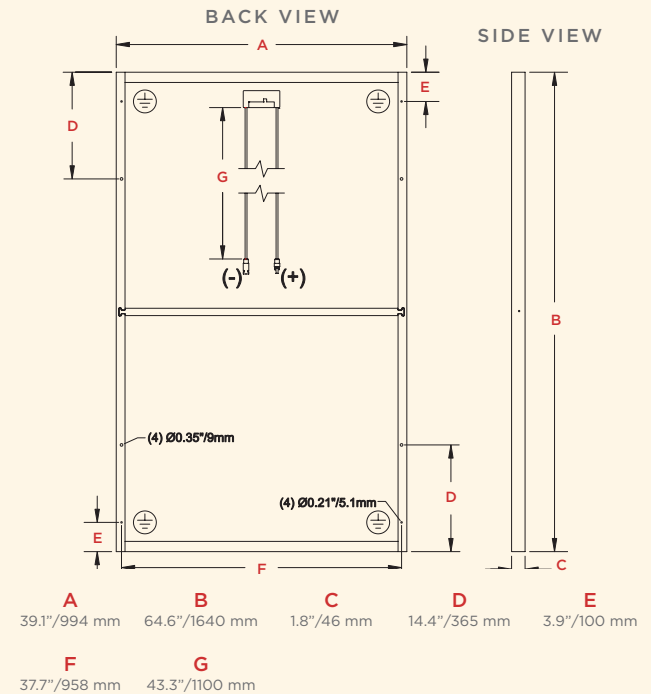
Design and specifications are subject to change without notice. Sharp is a registered trademark of Sharp Corporation. All other trademarks are property of their respective owners. Contact Sharp to obtain the latest product manuals before using any Sharp device.



# SHARP®

SHARP ELECTRONICS CORPORATION  
5901 Bolsa Avenue, Huntington Beach, CA 92647  
1-800-SOLAR-06 • Email: [sharpsolar@sharpusa.com](mailto:sharpsolar@sharpusa.com)  
[www.sharpusa.com/solar](http://www.sharpusa.com/solar)

### DIMENSIONS



Contact Sharp for tolerance specifications

### "BUY AMERICAN"

Sharp solar modules are manufactured in the United States and Japan, and qualify as "American" goods under the "Buy American" clause of the American Recovery and Reinvestment Act (ARRA).