

FRAMED SOLAR MODULES ECO-SERIES

- Power Rating For 62W
- Black Anodized Aluminum Frame
- Assemble To Meet Virtually Any Load
- Virtually Unbreakable (No Glass)
- Shadow & High Heat Tolerant
- Delivers Up To 20% More Real Energy



Photo Courtesy of Copal-Belle-Boutique



Photo Courtesy of Rodney Hearnes



UNI-SOLAR® framed modules are used with module support racks that can be adjusted for optimum orientation and tilt angle, wind resistance and exposure to sunlight. These glass-free, lightweight, vandal resistant modules can be utilized in a wide variety of applications from battery charging to grid connected systems.

The framed modules are often used as building blocks in photovoltaic arrays, which can be configured to meet virtually any load from less than 100 watts to multi-megawatts.

Why Do UNI-SOLAR® Products Outperform Others?

All solar panels are rated in terms of peak power output (watts). Outdoors, under normally higher operating temperatures, solar panel performance changes, depending on temperature, solar spectrum (light color) and related effects. UNI-SOLAR® products are less affected by temperature than monocrystalline or polycrystalline solar technology products. The result is up to 20% more delivered energy. **

** Source Solfest, "Module Shoot Out"

Applications

- Large Grid-Connected Systems
- Off-Grid Solar Home Systems
- Water Pumping or Desalination Systems
- Telecommunications
- Gate Opening or Fence Charging
- Bus or Animal Shelters



MORE
AMP-HRS



NO-GLASS



DURABLE



SHADOW
TOLERANT



HIGH-TEMP
PERFORMANCE



Specifications

Model	ES-62T
Rated Power (Wp)	62
Max Power Point VMPP (V)	15
Max Power Point IMPP (A)	4.1
Open Circuit Voltage VOC (V)	21
Short Circuit Current ISC (A)	5.1
Weight (lbs./kg)	24.0 / 10.9
Length (in./mm)	49.5 / 1258
Width (in./mm)	31.25 / 793
Depth (in./mm)	1.3 / 32
Cable Length (in./mm)	22 / 560
Warranty On Power Output	20 yr.

During the first 8-10 weeks of operation, electrical output exceeds specified ratings. Power output may be higher by 15%, operating voltage may be higher by 11% and operating current may be higher by 4%. Electrical specifications are based on measurements performed at standard test conditions of 1000 W/m² irradiance, Air Mass 1.5 and Cell Temperature of 25°C after long-term stabilization. Maximum system open-circuit voltage not to exceed 600VDC per UL and 1000VDC per TÜV. Actual performance may vary up to 10% from rated power due to low temperature operation, spectral and other related effects. Specifications subject to change without notice.

Quality Assurance, Proven Reliability

UNI-SOLAR® modules comply with the following qualification tests:

- UL Listed Up To 600 VDC 
- Safety Class II Up To 1000 VDC 
- Meets IEC 61646 Requirements
- Thermal Cycling
- Humidity-Freeze Test
- Damp Heat Test
- UV-Test
- Wet Insulation Test
- Mechanical Load Test
- Hail Impact Test
- Robustness of Terminations Test

Corporate Sales & Marketing Office
United Solar Ovonic LLC
 3800 Lapeer Road
 Auburn Hills, MI 48326 USA
 Tel: 248.475.0100
 Toll Free: 800.843.3892
 Fax: 248.364.0510
 Email: info@uni-solar.com

North American Sales Office
United Solar Ovonic LLC
 8920 Kenamar Dr., Suite 205
 San Diego, CA 92121 USA
 Tel: 858.530.8586
 Toll Free: 800.397.2083
 Fax: 858.530.8686
 Email: westerninfo@uni-solar.com

European Office
United Solar Ovonic Europe GmbH
 Dennewartstrasse 25-27
 D-52068 Aachen - GERMANY
 Tel: +49.241.9631131
 Fax: +49.241.9631138
 Email: europeinfo@uni-solar.com

Your UNI-SOLAR Distributor:



Product Description

The UNI-SOLAR® modules are exceptionally durable. They are encapsulated in UV-stabilized polymers and framed with anodized aluminium. The Polymer encapsulation includes EVA and ETFE. A Galvalume® steel backing plate provides stiffness.

Bypass diodes are connected across each cell, allowing the modules to produce power even when partially shaded.

The ES-62 comes standard with quick-connect terminals. ** The cable is a 2-conductor 12 AWG (22in. 560mm) with insulation rated at 194° F/90° C.

The UNI-SOLAR® ES-62 module is appropriate for all applications from simple single module requirements to larger grid-connected applications.

** e.g., Multi-Contact (MC®) connectors.