



Millennium Electric T.O.U. Ltd.

## T.O.U.-v01-500KW



### Features & Benefits

- ☑ High efficiency - maximizing power and reducing installation costs.
- ☑ High energy generating kWh/kWp performance.
- ☑ High power tolerance.
- ☑ High reliability through enhanced processing technology.

Millennium's photovoltaic modules offer industry-leading performance, durability, and reliability for a variety of electrical power requirements. Using breakthrough technology, these modules use a textured cell surface to reduce reflection of sunlight, and structure to improve conversion efficiency. An anti-reflective coating provides uniform blue color and increases the absorption of light in all weather conditions.

### ☑ Energy Storage System

Electric energy storage is a key element in efficient and cost effective Managed Energy Systems. Investment in power plants and equipment can be kept down by storing electricity during the low demand, off-peak nighttime hours and using it during the high demand, peak daytime hours.

An energy storage system can be installed in a distributed fashion within solar power stations or at a customer site and can be used for the following applications:

1. Load Leveling at Generator
2. Load Leveling at Customer
3. Uninterruptible Power Supply System
4. Emergency Power Supply System
5. Additional Power Quality Improvement
6. Output Fluctuation Suppression

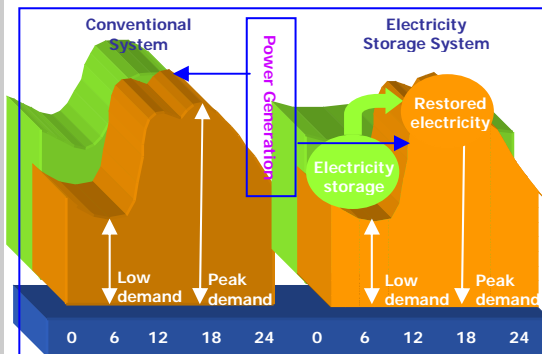
### ☑ High Quality

Advanced EVA encapsulation with highest quality strengthened glass embedded with years of manufacturing experience and quality assurance procedures.

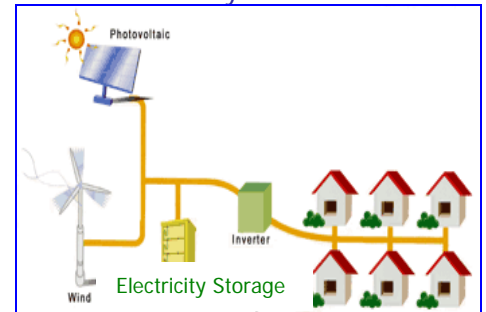
### ☑ Lifetime guarantee

Manufacturer lifetime guarantee for 25 year. Warranty for module 80% performance after 20 years.

#### Peak Shaving & Load Leveling



#### Integrated TOU & Renewable Energy System



### ☑ Return on Investment

TOU-v01-500KW

Takes advantage of two major benefits for the electricity user:

- The different prices for electricity charged by the electric companies for different times of use during the day.
- Peak hour prices, off-hour prices and peak demand prices and grants for installing out-sourcing local power generators.

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## Technical Specifications

<p><b>Output</b></p> <p>Output power capacity Output power capacity Max Configurable Power Max Configurable Power Nominal output voltage Output Voltage Distortion Output Frequency (sync to mains) Crest Factor Waveform type Output Connections</p>	<p>500,000 VA 500,000 Watts 500,000 VA  500,000 Watts 480V 3PH  less than 3%  60 Hz - programmable +/- 0.5-8% Unlimited Sinewave (1) Hard Wire 4-wire (3PH + G)</p>
<p><b>Input</b></p> <p>Bypass Nominal input voltage Input frequency Input Connection Type Input voltage range main operations</p>	<p>Built-in Static Bypass 480V 3PH 60 Hz - programmable +/- 0.5-8% Hard Wire 4-wire (3PH + G) 408 - 552 (480) V</p>
<p><b>Batteries &amp; Runtime</b></p> <p>Battery type Battery performance Technology Maintenance  Safety</p>	<p>Deep Charge, Deep Cycle 48V, 1000Amp AGM, 99% gas recombination, maintenance free, low self discharge, long service life UL, air transport complies with IATA/ICAO SP A67</p>
<p><b>Communications &amp; Management</b></p> <p>Interface port, Contact Closure Available Smart Slot Interface Pre-Installed Control panel Audible alarm Emergency Power Off (EPO)</p>	<p>DB-25 RS-232 SmartSlot Cards AP9617 Quantity 2 Multi-function LCD status and control console Beep for each 52 alarm conditions Yes</p>
<p><b>Physical</b></p> <p>Maximum H/W/D Net weight Shipping Weight Shipping H/ W/D Color</p>	<p>180/240/80 cm 2,505 kg 2,551 kg 255/250/100 cm Dark green, Light grey</p>
<p><b>Environmental</b></p> <p>Operating Environment Operating Relative Humidity Storage Temperature Storage Relative Humidity Online thermal dissipation Protection Class</p>	<p>0 - 40 °C 0 - 95 % -50 - 40 °C 0 - 95 % 65,510 BTU/hr NEMA 1 with NEMA 12 optional</p>
<p><b>Conformance Approvals</b></p> <p><b>Standard warranty</b></p>	<p>FCC Part 15 Class A, ISO 9001, ISO 14001, UL 1778, UL Listed, cUL Listed 1 year repair or replace, optional on- site warranties available, optional extended warranties available</p>