



On-line-interactive Uninterruptible Power Systems protect your vital equipment from damage by outages, surges, sags, and lightning.

Mesta's advanced engineering guards your critical equipment against:

- ❑ **surges, brown-outs and sags** that can severely damage sensitive electronics;
- ❑ **power loss** that can stop your critical operations cold, often destroying irreplaceable memory;
- ❑ **lightning strikes**, which are easily repelled by Mesta's 6000-to-1 attenuation.

Mesta UPS offer features and benefits that are not available from any other systems.

Because Mesta believes that "uninterruptible" should mean exactly that, they build their UPS units to provide:

- ❑ **Long-lasting reliability is built into every Mesta UPS.** Mesta's unique design optimizes performance and efficiency and reduces parts count. Low operating temperature and favorable voltage margins significantly extend component life. The result: the most reliable UPS units available from anyone... anywhere...at any price.

- ❑ **The first single-conversion, continuously on-line-interactive UPS.** Because the Mesta unit is *on-line*, it co-exists with your AC line input and continuously responds to line spikes and drops. And, because it is *single-conversion*, it is twice as efficient as antiquated double-conversion designs. Finally, because it is *interactive*, it continuously responds to the AC line input and the load to enhance the power factor and minimize the demand. This results in continuous protection, power conditioning and high efficiency.



The family of Mesta UPS...Series I(.4 to 1.25 KVA), the 2 to 5 KVA Series II and the three-phase Series III systems.

- ❑ **Unique phase-locked, amplitude-adjusted, on-line-interactive capability.** A Mesta unit can generate sufficient utility rate savings to pay for itself in less than three years.
- ❑ **A unique "charge profile algorithm."** Mesta follows battery manufacturers' recommendations, which minimize charging time and maximize battery service life.
- ❑ **Electronic short circuit and overload protection.** Mesta units offer a capacity twice that of the competition's...that's a 300% overload capability. Perhaps you've been buying more UPS than you really need, in order to compensate for an under-designed, unresponsive unit.
- ❑ **Extended service life.** Mesta produces a UPS unit so reliable that it provides 200,000 hours MTBF - that's almost 23 years of continuous service.
- ❑ **Universal compatibility.** Mesta UPS are compatible with all loads...all equipment...all applications. Fast, programmable compensation capability for amplitude and frequency variations enables the Mesta UPS to phase-lock with any generator on the market today.
- ❑ **Dynamic auto tap changer.** The microcontroller calculates characteristic line and system impedance, senses input AC voltage and loading variations and then dynamically selects the appropriate transformer tap to maintain the output voltage within a given tolerance. This provides peak performance under varying AC conditions.



The Mesta UPS output co-exists: with the utility. It is on-line and interacts with the AC line by complementing or assuming the load as necessary.

These advanced engineering features are standard on every Mesta UPS...from the streamlined Series I (0.4 KVA) to the ultra-programmable Series III (three-phase systems). All made in the USA.

Mesta UPS start under load, handle non-linear loads, limit current and offer short circuit protection.

At the heart of Mesta's unique design is a high-performance microcontroller which automatically generates a high-quality sine wave output that precisely matches the wave shape of commercial power, unlike the square waves generated by most other UPS systems (see Diagram below).

Mesta Systems offer both attended and remote computer interface.

All Mesta UPS provide RS232 communications that link the UPS microcontroller with a remote computer. The two-way link enables users to collect detailed information on power usage and other load characteristics and to remotely control the UPS or the load. Operating parameters and diagnostics are fully programmable.

The complete family of Mesta UPS answers every power protection requirement you may have.

Series I: .4 to 1.25 KVA

Small UPS units provide big system protection. Same state-of-the-art technology that is available in Mesta's three phase systems. Unprecedented overload protection. Get up to 5,000 watts of peak power for the lower price and smaller size of a 1250-watt UPS. Unique isolated bedside Medical UPS available with programmable alarm and automatic bypass.



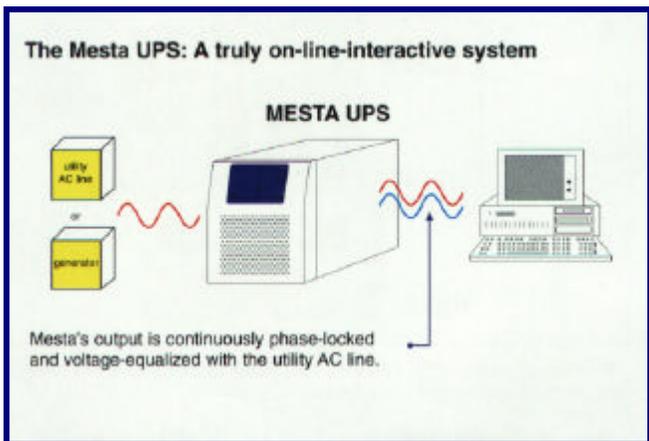
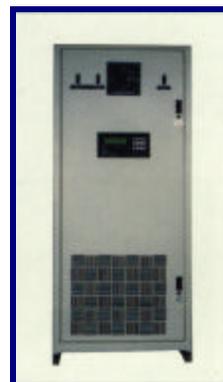
Series II: 2 to 5 KVA

15,000 watts of peak power in a 5 KVA package. Quiet operation. Over 200,000 hours MTBF – nearly 23 years - made it the choice of Carnegie Mellon University's Robotics Institute. Because of Mesta's 300% overload and current limiting capabilities, these compact 5 KVA Mesta UPS have replaced competitors' 12.5 KVA units.



Series III: 10 KVA and higher

Three-phase systems with a small footprint, but big power. Superior efficiency, 94% on-line. Internal batteries. Fully programmable using an integral 8 line by 40 character LCD display and keypad, or remotely through standard RS232 interface. Time-stamped, UPS power history records up to 50 events. Effortless installation. No sequenced start-up.



Mesta rated best by a range of critical users.

Sophisticated users of Mesta's UPS, such as Motorola, Prime Computer, the Carnegie Mellon University Robotics Institute and IBM (working with the Pennsylvania Court system) tested, and now enthusiastically endorse Mesta as the "best solution to UPS requirements...the UPS of the 21st century."

Software packages provide automatic UPS monitoring and unattended orderly shutdown.

A hardware agent is available that can be configured to turn a Mesta UPS into a SNMP-managed (Simple Network Management Protocol) device on a network.

Optional Power Configurations.

Any unit can be configured for 50 Hz, 230 volt or 60 Hz, 208/240 volt capacity.

All Mesta units are listed by



MEI-001-5/95 (K-S)
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