



Now, commercial enterprises of any size can **optimize** power to match their needs, exactly.



Introducing the UST EcoVolt.™

Finally, a proven plug-and-play solution for saving electricity while extending the life of voltage-dependent equipment.

Introducing EcoVolt™.

EcoVolt is the first voltage optimization and voltage regulation solution built on proven AVR technology. A breakthrough in affordable engineering, EcoVolt makes it possible for commercial customers to do what their utilities can't ... or won't.

Now, business owners, facility engineers and sustainability managers responsible for individual factories, retail centers, hotels and other enterprises can optimize and regulate voltage right at the point of demand.

WHAT ECOVOLT WILL DO FOR YOU

- Lower your electrical costs
- Reduce your carbon footprint
- Protect critical equipment from damaging electrical events
- Extend the life of your equipment motors, lights and other voltage-dependent equipment

EcoVolt is economical, and can pay for itself in as little as 2 years.

When combined with complete protection from damaging sags, swells and other electrical events, EcoVolt sets a new standard for perfect power.



APPLICATIONS

Commercial Buildings

Retail Stores

Industrial Machinery

Climate Control
Systems

Refrigeration

Hotels & Resorts

Electrical Specifications

Electrical Rating	20 thru 500 kVA
Nominal Voltage	480V and 600V for 60HZ units 230V for 50Hz units
Input Voltage Range	+/-10% of nominal input rated voltage
Output Voltage Range	+/- 1.5% of nominal output voltage
Response Time	1 cycle
Correction Time	2-3 cycles
Technology	Enhanced voltage regulation thru microprocessor-controlled design strategy
Tap Switching	Not dependent on determining load current zero crossing
Operating Frequency	+/-3% of nominal
Load Power Factor	No restrictions
Efficiency	99% typical
Cooling	Natural convection thru a NEMA-1 ventilated enclosure
Overload	1,000% for 1 second, 200% of rated load for 1 minute

Enclosure

	H (in/cm)	H (in/cm)	H (in/cm)
S28	43 / 109	28 / 71	26 / 66
S36	46 / 117	36 / 91	28 / 71
S44	65 / 165	44 / 112	33 / 84
S52	65 / 165	52 / 132	40 / 102

Environmental Specifications

Audible Noise	Less than 65dB at 1 meter
Ambient Temperature	0° to 40°C operating
Operating Altitude	10,000' without derating
Humidity	0-95% non-condensing

Specifications and Sizing : 60Hz / 600V*

KVA	Part #	Vac Input (wye)	Vac Output (wye)	Enclosure
20	OPT-0020-600Y-332	600	575	S28
30	OPT-0030-600Y-332	600	575	S28
50	OPT-0050-600Y-332	600	575	S28
75	OPT-0075-600Y-332	600	575	S28
100	OPT-0100-600Y-332	600	575	S36
125	OPT-0125-600Y-332	600	575	S36
150	OPT-0150-600Y-332	600	575	S44
200	OPT-0200-600Y-332	600	575	S44
300	OPT-0300-600Y-332	600	575	S52
500	OPT-0500-600Y-332	600	575	S52

Specifications and Sizing : 60Hz / 480V*

KVA	Part #	Vac Input (wye)	Vac Output (wye)	Enclosure
20	OPT-0020-480Y-266	480	460	S28
30	OPT-0030-480Y-266	480	460	S28
50	OPT-0050-480Y-266	480	460	S28
75	OPT-0075-480Y-266	480	460	S28
100	OPT-0100-480Y-266	480	460	S36
125	OPT-0125-480Y-266	480	460	S36
150	OPT-0150-480Y-266	480	460	S44
200	OPT-0200-480Y-266	480	460	S44
300	OPT-0300-480Y-266	480	460	S52
500	OPT-0500-480Y-266	480	460	S52

Specifications and Sizing : 50Hz / 230V*

KVA	Part #	Vac Input (wye)	Vac Output (wye)	Enclosure
20	OPT-0020-230Y-124-5	230	215	S28
30	OPT-0030-230Y-124-5	230	215	S28
50	OPT-0050-230Y-124-5	230	215	S28
75	OPT-0075-230Y-124-5	230	215	S28
100	OPT-0100-230Y-124-5	230	215	S36
125	OPT-0125-230Y-124-5	230	215	S36
150	OPT-0150-230Y-124-5	230	215	S44
200	OPT-0200-230Y-124-5	230	215	S44
300	OPT-0300-230Y-124-5	230	215	S52
500	OPT-0500-230Y-124-5	230	215	S52

The EcoVolt is designed to silently monitor your incoming voltage, correct three-phase unbalance, protect against electrical events and optimize voltage to match your demands, exactly – regardless of location, load or line condition.



*Custom voltages and sizes available upon request.

Power. Made Perfect.

UST ECOVOLT FEATURES

Rugged industrial design

High overload protection

Fully electronic – no moving parts / low maintenance

Independent phase regulation and balancing

No power factor restriction on loads

Fail-safe, no-break, auto bypass with no loss of load

Status indicating display

Surge protection to ANSI/IEEE and IEC standards

High-efficiency (99%) auto-transformer design

Input circuit breaker

Over-temperature protection



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Utility Systems Technologies, Inc. (UST) is a world-leading designer and manufacturer of electronic voltage control and power-conditioning products. UST's products are in use worldwide at hospitals, factories, refineries, embassies, data centers and other critical facilities, mitigating the risk of damaging electrical surges, sags and swells, bridging brownouts, and providing a safe connection to the local grid.