

Save up to 25% on your home electric bills!

Now homeowners and residential customers everywhere can instantly, automatically and permanently reduce their electricity costs by up to 25 percent, while improving the effectiveness of their electrical power — which will extend equipment life, improve equipment functionality and provide the safety of minimized EMF radiation. All with the USES® Shunt Efficiency System A.C. Power Conditioner. The electrical watchdog that never sleeps.

Energy Savings and Protection

Energy savings are achieved on all inductive equipment and appliances such as refrigerators, freezers, air conditioners, heat pumps, heating system circulators and blowers, swimming-pool or well pumps, washers, dehumidifiers and similar appliances. USES units also protect personal computers, consumer electronics, and appliances from power line transients, surges, spikes, and secondary lighting effects.

Easy Installation

Most homes require a single USES unit which can be easily installed at the service entrance circuit breaker panel. Once installed in this position, USES provides both the energy savings on inductive equipment and protection for all equipment powered from the panel. In addition, USES provides comprehensive power conditioning and enhancement, including power factor improvement, RF-noise reduction, and improved load balancing and voltage regulation.

Proven Performance

Over 1,000 private and commercial sites, now enjoy the many benefits that USES provides. Commercial sites include the U.S. Navy, U.S. Marine Corps, the State of Connecticut, Reebok International and Washington National Airport.

Pays for Itself

The damage to electronic and electrical equipment caused by a single surge or spike can easily exceed the cost of a USES unit for the home. In addition, the savings you see every month on your electric bill add up quickly. Specific savings depend on the electrical equipment, the hours of operation, and the utility rates. A USES unit typically pays for itself within two to three years of installation through energy cost savings alone.



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THE ELECTRICAL WATCH DOG



USES®

USES MFG. INC., P.O. BOX 156, QUAKER HILL, CT 06375

BENEFITS

- Reduces power costs, typically from 10–15%; reductions up to 25% have been documented!
- Increases system capacity
- Extends electrical equipment life
- Reduces electrical equipment maintenance costs (and associated downtime)
- Improves equipment functionality
- Improves radio, TV and telephone reception (thanks to less line noise)
- Provides a healthier, EMF-reduced environment
- Environmentally responsible — saves energy!

FEATURES

- Maintenance-free
- Installs easily
- Reduces line current and wattage
- Helps to balance loads
- Reduces EMF radiation strength from point of connection back to the source
- Protects against surges and spikes
- Reduces line noise
- Improves voltage regulation
- Improves power factor
- All units backed by a three-year warranty

TECHNICAL SPECIFICATIONS

MODEL	RDES-1	CMES-1
Line Voltage	120/240 Vac	120/240 Vac
Nominal Freq.	50Hz/60Hz	
Power Dissipation per 8x20 μ sec.	>525 joules	>650 joules
Peak Pulse Current	>20,000 A	>20,000 A
Max Surge Current per 8 x 20 μ sec.	10,000 A 4 shots	10,000 A 4 shots
Nominal Clamping Voltage	130/250 Vrms	130/250 Vrms
Maximum Steady State Voltage	340 V	340 V
Response Time	<5 nanoseconds	
Surge Rebound	inherent "self healing" property	
Standby Power	>8 watts	>10 watts
Total Capacitance	150 μ F	200 μ F
Operating Temp.	-40°C to +70°C	
Unit Temp. Rise	<3°C after 24 hrs under full load conditions	
Audible Noise at 3'	<2 dBA	
Operating Life	>60,000 hrs with over 95% survival	
Line Connections (THHN Single Cond.)	#10	#10
Circuit Breaker Required	20 A, 2 pole	20 A, 2 pole
Dimensions (H x W x D)	6"x 6"x 4"	10"x 8"x 6"
Estimated Weight	7 lbs	8 lbs
Estimated Savings (Note 1)	0.5 kW 0.5 kWh/hr	1.0 kW 1.0 kWh/hr
Warranty	3 years	

Note 1: kW and kWh savings are provided for inductive loads only. Actual savings depend upon load characteristics. Specifications subject to change.

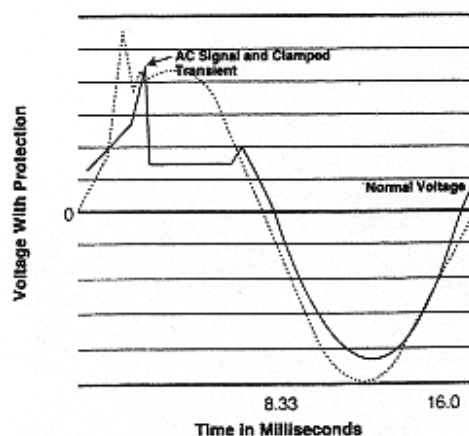
"Your invention really works! Since the USES unit was installed the average daily usage was down to 15KWH from 24KWH (before USES was installed)."

— Bud Solomon,
Niantic, CT

"I purchased USES for my home approximately two years ago. In this time my power bill has gone down approximately 25 percent and has consistently stayed there."

— Andrew Smith
Quaker Hill, CT

Line Voltage — With Protection



Graph of line voltage with applied transient versus time: With protection — transient is suppressed; electrical equipment is protected.



NEMA 1



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