

Energy Saving Power Quality Conditioners

eSAVER™ - Compact High Efficiency AC/AC Voltage Optimizer

Models: EE-201-Series



FEATURES

Small, compact and easy to install residential device which saves energy through Conservative Voltage Reduction (CVR)

- Continuous Voltage regulation eliminates Voltage volatility
- Voltage Output Regulated to $\pm 1\%$, which significantly improves appliance life
- High Efficiency 98.5% @ 60% Load
- Simple and rapid Commissioning
- IP65 Packaging
- Intelligent software control; Programmable over Internet
- Full Power Quality, Consumption Data available remotely
- Adaptive Regulation compensates Residential wiring losses
- Bi-directional—passes reactive power bi-directionally
- 1-Phase Input 180-275 VAC | 50 Hz | 5KVA
- With VO Regulation Current Capability 22A, Bypass to 63A
- High Frequency Power Electronics Compact Module
- EMI Electrical Noise Suppression Networks
- Line Surge protected - IEC 61000-4-5 to 10KV / 40KA
- Compliance to AS/NZS 60335.1:2011 + A1 + A2
- Comms Options LAN, WiFi, 3G, 4G



DESCRIPTION

The Edge Electronics Compact High Efficiency AC Voltage Regulator is part of the Edge Electronics Power Quality Conditioning Range of Products. It is an Intelligent, Software driven, Automatic AC-AC Voltage CVR Regulator. This eSaver is specifically designed to be Bidirectional and boosts any Power applied at the Voltage Regulated Output back to the Input, eliminates Voltage Volatility and fully protects Voltage sensitive Loads from Voltage Surges.

The Edge Electronics eSaver regulates voltage to lower electricity consumption, reduce electricity costs, improve power quality and reliability and help protect the environment.

Key Features	
Input Voltage Range	180 - 275 VAC 1-Ph
Output Voltage	Regulated to $\pm 1\%$, Fixed or Programmable
Bidirectional	Power applied to Regulated Output Boosted to Input
Efficiency	98.5% @ 60% Load
KWH energy Savings	Approximately 1 % for each 1% Voltage Reduction (CVR) (minus -1.5 %)
Lightning Strike	Power line surge protected to 10KV per IEC61000-4-5
Operating Temperature Range*	-10 to 50°C Ambient (Please see Derating Curve Fig. 2)
Max. Humidity	95% (Non Condensing)
Dimension (mm) & Weight	L200 X W165 X D115, 7Kg
Patent	Patents Pending

ELECTRICAL SPECIFICATIONS

Fig 1 – eSAVER Voltage Regulation

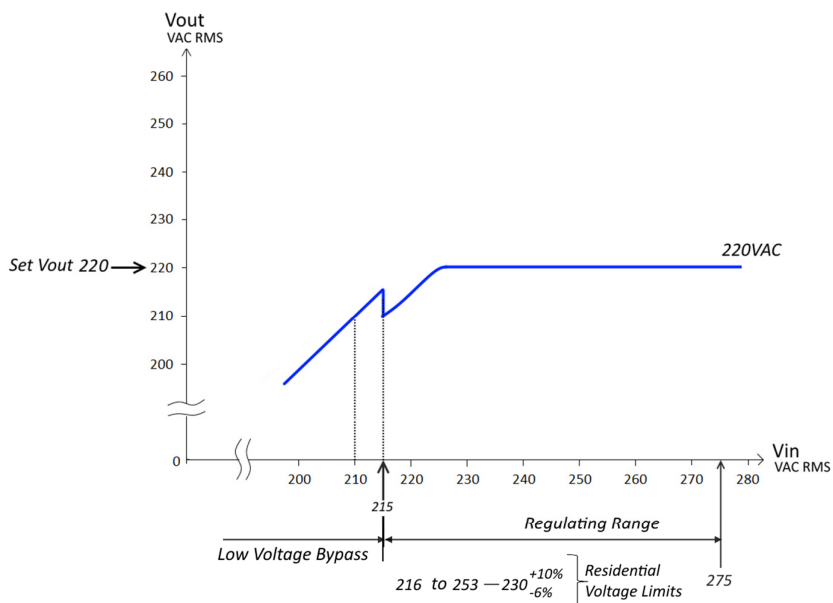
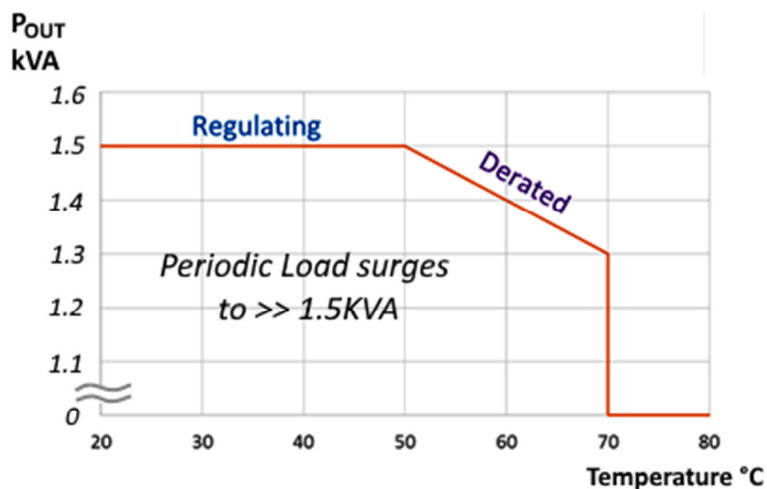


Fig 2 – Temperature Derating



Please see Application Notes for derating details.

Contact

Edge Electrons Limited
www.edgeelectronics.com