

Energy Saving Power Quality Conditioners

eCVR - Compact High Efficiency AC Voltage Regulator

Models: EE-200-0050- Series



FEATURES

- Eliminates Voltage volatility with Voltage Optimization
- Saves Energy with Conservative Voltage Reduction (CVR)
- 1-Phase Input 180-275 VAC | 50 Hz | 5KVA
- With full Voltage Regulation to 5KVA, 25A Load:
- Input Breaker 25 A: Model EE-200-0050-001
- Voltage Output Regulated to 225VAC \pm 1%
- High Frequency 25kHz, compact Module
- Bidirectional—Power to Output is Boosted to Input
- High Efficiency 98.5% @ 60% Load
- Intelligent software control
- High Frequency Power Electronics Compact Module
- IP45 Packaging
- Simple and rapid Commissioning
- EMI Electrical Noise Suppression Networks
- Line Surge protected - IEC 61000-4-5 to 10KV / 40KA
- Compliance to AS/NZS 60335.1



DESCRIPTION

The Edge Electronics eCVR Compact High Efficiency AC Voltage Regulator is part of the Edge Electronics technology Power Quality Conditioner Range of Products, and is an Intelligent Software driven Automatic AC Voltage CVR Regulator. This eCVR is specifically designed to be Bidirectional and boosts any Power applied at the Voltage Regulated Output back to the Input, also eliminates Voltage Volatility, fully protects Voltage sensitive Loads from Voltage Surges and reduces Cost of Power usage by increasing Energy Savings using Conservative Voltage Reduction (CVR) (approximately 1:1 CVR) to help conserve 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 2 %)
Lighting 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)
Dimension (mm)	W420 x H134 x D310
Weight	7kg
Max. Humidity	95% (Non Condensing)
Patent	Patent Pending

* Note: Power \leq 5KVA/Module depends on Thermal environment (Please see Derating Curve Fig. 2).

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ELECTRICAL SPECIFICATIONS

Fig 1 – eCVR Voltage Regulation

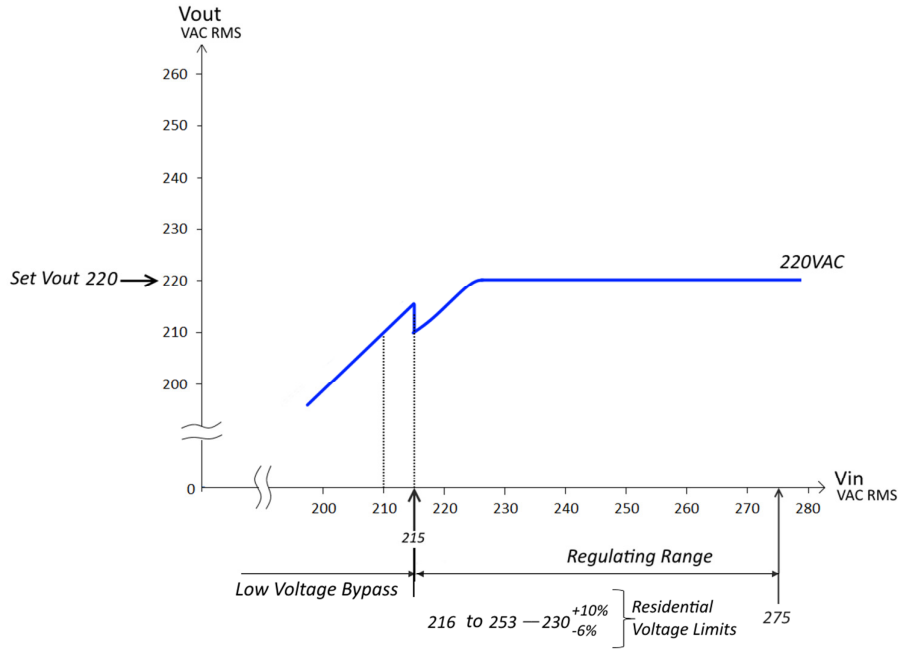
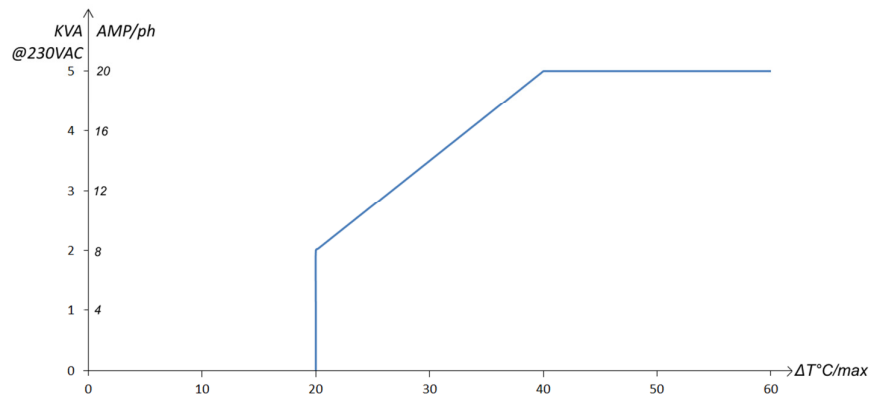


Fig 2 – Temperature Derating



Please see Application Notes for derating details.

Contact

Edge Electronics Limited
www.edgeelectronics.com