

Energy Saving Power Quality Conditioners

PowerSave™ – Standalone Power Factor Correction Unit

3-Ph|4-Wire|Star Connected 240VAC – 10/25/50 KVAR*

Models: EE-100-Series



FEATURES

Compact Power Factor Correction unit which saves money by elimination of KVAR demand charges

- Automatically corrects low Power Factor
- High Resolution fine digital steps
- Intelligent software control
- 3 CTs provide independent phase control
- Ideal for sites with unbalanced single phase loads
- Rapid Commissioning with Digital Controller
- High Reliability Aluminium Self-Healing AC Capacitors
- Zero Crossing Semiconductor pre-charge to eliminate
 - High Current Surges
 - EMI Electrical Noise
 - Destructive Capacitor Currents
- Reduces Harmonics and protects Capacitors
- EMI Electrical Noise Suppression Networks
- EMC – C-tick
- Line Surge protected - IEC 61000-4-5 to 10KV/40KA
- Compliance to AS/NZS 3100:2009 + A1 + A2 + A3
- Lockable Robust Housing
- AFLC Ripple Signal Selectable K22
- Comms Option LAN, WiFi, 3G, 4G



Handheld Commissioning Controller

DESCRIPTION

The Edge Electronics PowerSave™ Power Factor Correction range are high resolution, Intelligent Software driven Automatic Power Line Conditioners. The PowerSave™ is specifically designed to improve Power Factor, increase Power Efficiency, eliminate or reduce KVAR Demand Charges and help conserve the Environment. Commissioning is simple and rapid due to Software driven Digital Handheld Commissioning Controller.

The Edge Electronics PowerSave™ independently controls each Phase to Neutral for 240VAC|4-Wire accurate high resolution correction.

Key Features	
Voltage	240 VAC 4-Wire 3-Phase to Neutral
Var Rating	Three phase (incl. L1/L2/L3) – 10 / 25 / 50 KVAR*
Frequency	50Hz
Lighting Strike	Power line surge protected to 10KV per IEC61000-4-5
Circuit Breaker	Internal inside box
Operating Temperature Range	-10 to 55°C Ambient
Ingression Grade	IP 45, Outdoor or Indoor Installation: 10 KVAR IP 43, Indoor Installation: 25, 50 KVAR
Max. Humidity	95% (Non Condensing)
Patents	Patents Pending

* Total L1 / L2 / L3 3-Ph KVAR

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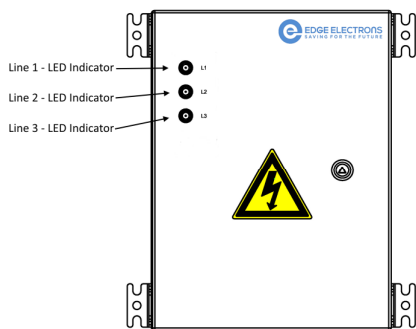
Models: EE-100-Series



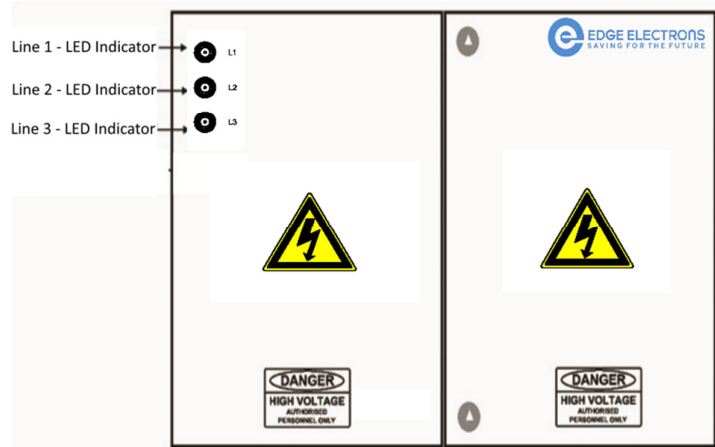
ELECTRICAL SPECIFICATIONS

	EE-100-0100-052	EE-100-0250-052	EE-100-0500-052
Voltage	<i>Three Phase (incl. L1/L2/L3)</i>		
VAr Rating	<i>10KVAR</i>	<i>25KVAR</i>	<i>50KVAR</i>
Voltage Range	<i>190 – 276 VAC</i>		
Voltage Lockouts	<i>Undervoltage-Lockout – 190V, Overvoltage Lockout – 276V</i>		
Harmonics Protected	<i>Software Capacitor Harmonic Current monitoring and protection</i>		
Frequency	<i>50Hz</i>		
Lighting Strike	<i>Power Line Surge Protected - tested to 10KV per IEC61000-4-5</i>		
Operating Temperature Range	<i>-10 to 55°C Ambient</i>		
Max. Humidity	<i>95% (Non Condensing)</i>		

For 10 KVAR:



For 25, 50 KVAR:



- LED Indicators Red | Green – Simple Rapid Commissioning.
- Test Pushbutton – LEDs Flashing Red – Unit under Local and Remote Test Cycle.

* Total L1 / L2 / L3 3-Ph KVAR

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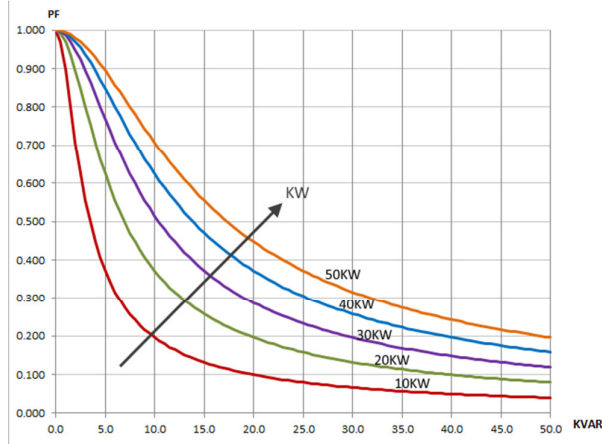
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ELECTRICAL SPECIFICATIONS

Three phase (incl. L1/L2/L3) – 10/25/50 KVAR*

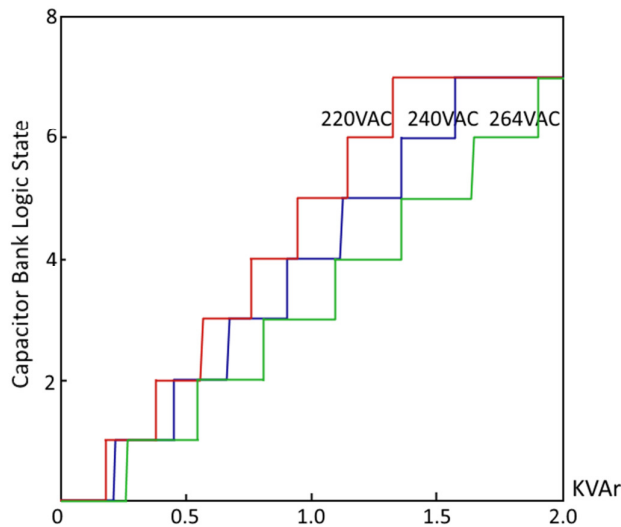


* Total L1 / L2 / L3 3-ph KVAR

KVAR Unit Selection Recommendation:

	Models	Max. VAr Rating	Range of KVAR Peak Application
Three phase (incl.L1/L2/L3)	EE-100-0100-052	10KVAR	>3.0 KVAR to ≤ 10 KVAR
	EE-100-0250-052	25KVAR	>10.0 KVAR to ≤ 25 KVAR
	EE-100-0500-052	50KVAR	>15.0 KVAR to ≤ 50 KVAR

Capacitor Select Logic State vs VAR and Line Voltage Example:



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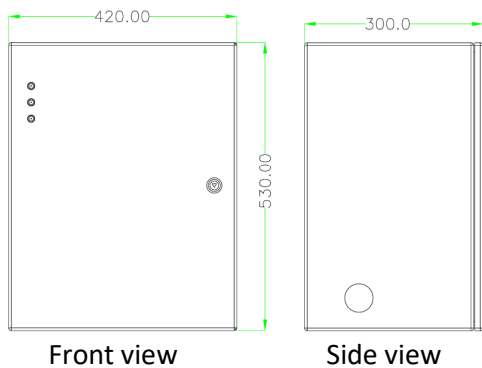


MECHANICAL SPECIFICATIONS

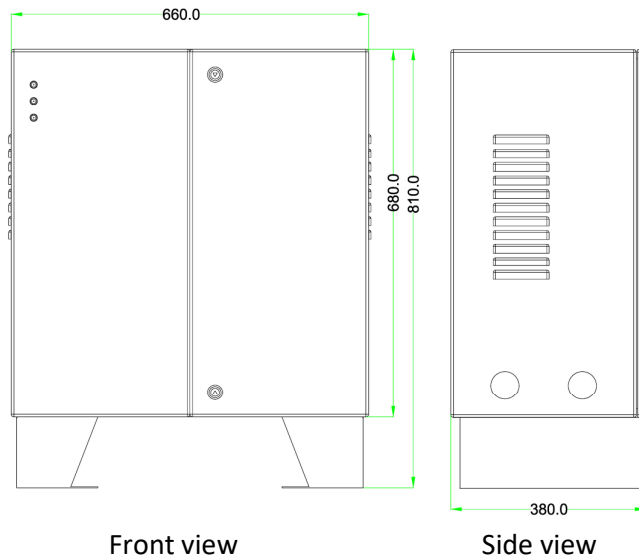
	EE-100-0100-052	EE-100-0250-052	EE-100-0500-052
Voltage	Three Phase (incl. L1/L2/L3)		
Dimension (mm)	H530 x W420 x D300	H680x W660 x D380 (130mm Floor Stand)	
Mounting	Wall Mount	Floor Mount	
Weight (kg)	26	62	70
Wire Gauge & Rating	2.5mm ²	≥6mm ²	≥10mm ²
Ingression Grade	IP 45, Outdoor or Indoor Installation: 10 KVAR IP 43, Indoor Installation: 25, 50 KVAR		

* Total L1 / L2 / L3 3-Ph KVAR

For 10 KVAR:



For 25, 50 KVAR:



Contact

Edge Electrons Limited
www.edgeelectrons.com