







Compact Activar/Equalizer

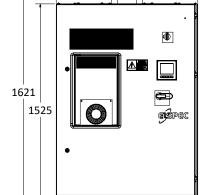
Compact reactive power compensation unit

The Compact Activar/Equalizer are static/dynamic VAR compensation systems for transient-free power factor correction and dynamic load compensation. Traditional systems are often larger, complex and expensive. Our compact systems emerge in response to these challenges for industrial and commercial sectors with limited space. With only 120(H) x102(W) x76(D) cm, our system's footprint is the most efficient design offered by Elspec.

By compensating voltage drops, harmonics, voltage flickering & fluctuations, our systems enhance machinery lifetime and improve production efficiency. our compact cost-effective design offers easy upgradability, and modularity. The unique modular design enables system extensions including hybrid layout for integrated active harmonic filtration.



1020



Mechanical design with hybrid harmonic filtration

Key Features

Real-time power factor correction
High resolution compensation
Compact & efficient design
Alternative to conventional, larger compensation systems
Designed for industrial & commercial applications

Specifications

	2517/4 (4207//5011) :
System Power	25kVAr(400V/50Hz) to 380kVAr(480V/60Hz)
Network Voltage	208V to 480V
Operational Frequency	45-55Hz for 50Hz Network 55-65Hz for 60Hz Network
Switching	Transient free operation: Electronic switching designed to switch capacitor groups into the network without switching transients. Connection to the network during current zero-crossings, providing smooth connection and disconnection of the groups.
Group Configurations	Number of groups: Up to 3 groups per system. Switching Sequence: 1:1:1 1:2:2 1:2:4
A	Full compensation within one network
Acquisition Time Equalizer	cycle:5-20ms for 50Hz network4-16ms for 60Hz network
Acquisition Time Activar Plus	2 network cycles per step:40ms per step for 50Hz network32ms per step for 60Hz network
Acquisition Time Activar	One second per step.
Control Mode	 Main CT Location options: Load only (open loop) Load + capacitors (close loop) Network configuration: Single phase Three phases WYE/DELTA balanced Three phases WYE/DELTA unbalanced Capacitor configuration options: Single phase - line to line
Capacitors	High power capacitors: • 450V: 7.5um film thickness • 550V: 10um film thickness • 690V: 12um film thickness Maximum ratings: • Overcurrent: 4 In • Inrush current: 200 In
Inductors	 High performance cooper inductors: Rated inductance and tolerance: -1.5% / +2.5% Insulation voltage: 6,000V
Losses	208V-480V: < 0.8%
Protection Class	NEMA 1
Operational Temperature	-10°C to +40°C
Communication	Isolated RS485 Up to 115k Baud Rate Protocols options: Ethernet protocol ELCOM (Elspec High-Speed Communication Protocol) ModBus/RTU (IEEE 754 Floating Point Full remote control via PQ-SCADA
Operational Mode	ManualAutomaticTest

	Cimulton cour more surement of the
	Simultaneous measurement of the following sections:
	Mains (total of load and capacitor)
Built In Power Quality	• Load
Measurement System	Capacitors (system)
	Combination of mains, load and
	capacitors
	Structure:
Disulas.	Graphic, high contrast FSTN LCD
Display	4.7", Black/White Long life LFD backlight
	Long life LED backlightAntiglare coated polycarbonate window
	Power supply:
	230V, 50Hz
	LCD Display:
	• Size: 94x76mm
	Resolution: Graphic 160x128px
	Type: FSTN, LED backlight
	Frequency:
Controller	30 to 70Hz
Specifications	Power consumption:
•	10VA
	Dimensions: 144x144x138mm, Weight: 1.4kg
	Standards:
	Electromagnetic compatibility:
	EN50081-2, EN50082-2, EN55011,
	EN61000-4-2/3/4/5, ENV50204, ENV50141
	Safety standards: EN61010-1, EN50439-1
	Electronic switches:
	Rated voltage: 2400V/peak
	Rated current: 350Amp cooling:
Switching Module	Temperature controlled, forced air
	cooling system. Panel mounted
	Easy maintenance Systemal air singulation
	External air circulationLong life ball bearings fan
	Low losses:
	• 400V: 0.35% (3.5W/kVAr)
	• 480V: 0.30% (2.0W/kVAr)
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	Pqscada Sapphire software: complete system remote control
	complete system remote control • Real time measurements
	Time-of-use and cost allocation
PC Software	Harmonic & waveform graphic and
	tabular display
	Comprehensive data logging, including
	triggers and set points
	Automatic comparing to international
	Power quality standards, such as ieee
	519 (harmonics standard)
	Easy report generation
	Exporting to word processor (such
	as Microsoft word) and spreadsheets
	(such as Microsoft excel)
	User friendly on-line help, toolbars and hints
	Internet and intranet operationStand-alone or network versions,
	allowing intra-net and internet
	connectivity
	Confidential



Ask us about our complete line of power quality solutions www.elspec-ltd.com