

SmartVAR Range – Power Factor Correction by kVARCorrect



Why Automatic Power Factor Systems?

- Cost effective
- Reliable
- Reduces peak demand
- Easily maintained

Why kVARCorrect?

- Power factor specialists with many solutions
- Highest quality German capacitors (KBR) fitted with individual temperature sensors, and rated to 525V where possible to ensure a long and reliable life cycle
- Top selling Austrian contactors (capacitor-rated)
- Locally designed Harmonic Blocking Reactors (7%, 189Hz)
- Type tested German cabinets (Rittal)
- Superior modular design:
 - Front access to capacitors meaning full online diagnosis, as well as replacement of capacitors without powering down the system
 - Modules confined to removable trays, which are easily swapped out in as little as 3 minutes without powering down the system
 - Temperature controlled fan & over-temperature cabinet shutdown module, able to be connected to both audible and visible external alarms
 - Specifically designed thermal management system including separate thermal areas to prolong capacitor life. This has been extensively tested in all environments with outstanding results
 - Hot swappable rear bus system in Optimum models
- Weatherproofing and colour change options available
- Ongoing protection against penalties or peak demand charges in the event of a breakdown – any electrical technician can replace contactors, capacitors, fans, and entire modules without powering down the system
- Locally designed, manufactured, and fully customisable kVARCorrect controller – built for simplicity of use, reliability, and value. Options include communication interfaces such as GSM text capability
- Easy maintenance program that can be done by any electrical technician
- Excellent value for money
- Exceptional customer service, after sales support, and service resources
- 2-6 year warranty, dependent on system model



Warranty & Maintenance Details

- Model specific, generally 5 years warranty provided regular maintenance is recorded
- The easiest way to ensure the product remains under warranty is to contract kVARCorrect



For over 40 years, more than 110 employees have been developing, manufacturing and servicing customer-driven solutions in the energy management field. As a medium-sized company, KBR creates innovative products and system solutions in close cooperation with their customers. KBR capacitors are rated at 5°C above the IEC standard and with a lifetime of >250,000 hours when operated within their temperature rating.

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Technical Information

- Unique thermal design – very rarely require air-conditioning
- System Voltage: 400/415V
- Normal Design Operating Ambient Temperature: 0-50°C
- Wide range of options

kVARCorrect can trace its experience and knowledge of manufacturing both power factor capacitors and power factor control systems back to 1978 when local Rotorua Businessman, David Dawson, started Metalect Industries. The business was sold to Australian Company Ampcontrol in 2007 and operated for 8 years before closure in 2015. kVARCorrect started trading in the same market sector in April 2016 with the senior experienced people of the earlier companies.

	SmartVAR Mini		SmartVAR Classic	SmartVAR Compact		SmartVAR Optimum		SmartVAR Hybrid
Size (kVAR)	20-90kVAR		125, 175, 225 kVAR	~50-200 kVAR	200-450 kVAR+	~50-400 kVAR	~400-850 kVAR+	20-850 kVAR+
Width (mm)	500	760	600	600	1200+	800	1600+	~
Depth (mm)	250	300	350	500		600		~
Height (mm)	700	760	1200	1600		2100		~
Harmonic blocking reactors	No		Yes	Yes		Yes		Yes
Wall mounted	Yes		No	No		No		Partially
Type of bus	N/A		N/A	Front		Rear		Front/Rear
Module Slots	N/A		5	5	10+	7	14+	5+
Configuration	Some expansion available		(3x50kVAR) (1x25kVAR) (1xprewired position)	Maximum Tray Size: (1x50kVAR) Example: 50+50+25+12.5/12.5		Maximum Tray Size: (1x67kVAR) Example: 67+67+67+67+33+17.6/8		Installed internally (2 tray slots) or externally
Time to add steps	2 hours		2 hours	20 minutes		5 minutes		10 minutes
Thermostatically controlled fans	No		Yes	Yes		Yes		Yes
Zero voltage switching available	No		No	Yes		Yes		Yes
Capable of handling leading power factor	No		No	No		No		Yes
Suitable building type	Commercial		Commercial & Industrial	Industrial		Rugged Industrial		Commercial & Industrial
Warranty Period	2 years		3 years	3 years		5 years		2-6 years
Approx Cost /kVAR	~\$150		~\$40	~\$70	\$60	~\$75	~\$65	~\$150

Keen to learn more? Get in touch with us!

NEW ZEALAND

Please contact your local Sales Office:

Sales@kVARCorrect.com Ph: +64 7 347 0646

AUSTRALIA

Please contact your local Account Manager
Claire-Elizabeth Ramson:

ClaireRamson@kVARCorrect.com Ph: +61 435 798 323