



Trusted Partner in PQS

ABOUT US

Started in 2016 with the theme of **“Trusted Partner in Power quality Solutions”**. We are bounded to customer for our best services at reasonable price & best quality product in the market. We are distributors for **M/s Gruppo Energia, Italy** for their **Power Factor Correction** products all India basis. We have a facility of systems study & solutions designed for power quality problems. We have a target to become preferred supplier in the field Reactive Power Components & Power Quality Solutions. We have strong back up team. We have pan India presence with local partners.

COMPONENTS

Dry Type
Power Capacitor



Detuning Reactor



Thyristor



PQS



Passive Harmonic Filter



Power Factor Controller



I/O Chokes



**03 Sparkle Avenue, Near Chate School (Katraj) Pune-Satara Road,
Katraj Pune – 411046**

CAPACITORS

- Gruppo Energia Italy Make
- 1.8 times of rated current
- 300 times of the inrush current
- No derating upto 60°C
- 3 Years Guarantee
- UL, C-UL ,VDE or all international standard approved



POWER QUALITY SOLUTION (PQS)

1. A complete one step solution
2. Power Quality measurement by fluke 435
3. Submission of report with true measurement by graphs & waveforms
4. Recommended solution to your problems
5. Hardware support to your problem & relief from the problem



PEC

Applications:

1. AC input and AC output filters
2. Damping & snubber
3. Surge suppression
4. Commutation
5. DC linking & DC filtering

REACTOR

Best class in rating and design

1. Available with copper or aluminium winding
2. Vacuum-impregnated for low noise operation and corrosion-protection
3. Special low-loss Iron core (With CRGO core material) of high-class transformer sheets for minimized heat losses
4. Very Low power losses by using CRGO core material 50% lower than others.
5. High linearity rating – safe against Ferro-resonances
 - $\geq 1.75 I_N$ for 7% (189Hz)
 - $\geq 2.2 I_N$ for 5.67% (210Hz)
 - $\geq 1.55 I_N$ for 14% (134Hz)
6. Adjusted rating to match with existing capacitor to reduced cost.



THYRISTOR SWITCH

1. Available up to 100 kVAR single Switch Module.
2. Natural Cool Heat Sink to save power consumption up to 50 kVAR.
3. Unique Anti Resonance Feature for 50 / 75 / 100 kVAR module for Systems Protection & Safe Operation.
4. Original Semikron make German Thyristor / Diode Module with 1800 PIV for safe & Reliable operation.
5. Available all protection in Built type i.e. Over Current / Over Temperature / Over Voltage / Short Circuit.



I/O CHOKES

- Available in Aluminium or copper
- As per Customer Requirement & design
- Class H insulation for higher reliability
- 20 years of vast experience for product performance
- CRGO core material for lower losses
- Lower Temperature rise

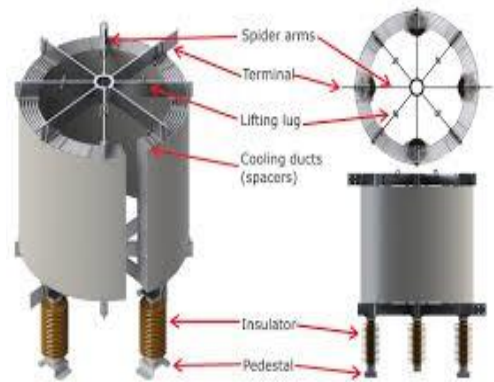


RELAY

1. The Power Factor Controller is modern control device of innovative design with a variety of functions.
2. It is designed for a measuring voltage of 30...550V (L-N) or (L-L) and an auxiliary supply voltage of 110 to 550VAC.
3. It features a user interface with a menu-driven display in plain text for maximum ease of operation.
4. Straightforward symbols and alphanumeric displays combine maximum ease of handling with convenient presentation of results.
5. Display of various grid parameters, storage of various values and a test run option make it easy to analyse errors and monitor the system.
6. 4/6/8 switching output, 6/8/12 switching outputs. Programmable individual banks kvar value.
7. Complete menu-guided operation and display. Illuminated graphic display with 2× 16 characters.
8. Four-quadrant operation. Display of various line parameters (V, I, F, Q, P, S...).
9. Monitoring of the individual capacitor power values. Storage of maximum line-parameter and switching-operation as well as of the turn-on times of individual capacitor contactors manual and automatic operation.
10. Programming of fixed stages and the option of skipping individual outputs.
11. Error detection for various states and interference-message output. Test run of PFC system with error analysis.



MV REACTOR



- We manufacture reactor upto 33 KV, both Dry Type & oil type.
- We have 0.2% current limiting reactors and 6% Harmonic Filter Reactor.
- Special purpose reactors according to customer specifications also available
- Reactors according to various utility norms of India is also available.

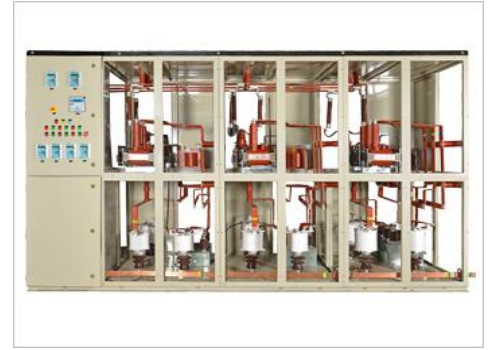
MV VACUUM CONTACTOR

- Rated voltage 12kV
- Rated frequency 50 / 60 Hz.
- Rated current 400A
- BIL 28/95 KV peak
- Vacuum Interrupter designed for 100000 mechanical operations
- Developed considering critical application, viz., Capacitor Bank switching
- Available in Solenoid & Mechanically Latched Versions
- Different Coil Voltages available



MV APFC PANEL

Purpose of this panel is to provide an effective control on capacitor bank installations in substation to maintain power factor near unity under varying load conditions, thereby reducing maximum demand, reduction in transformer and line losses keeping power billed to Consumer the same.



Availability of additional power at existing Maximum Demand with transformer and line losses remaining at the earlier level and maintaining normal life of associated equipment. This will generate more revenue by supplying additional available power to consumer and cost of additional investment in this scheme will be recovered very fast. System efficiency will also improve to some extent due to better utilization of available capacity.

Application:

- Power factor correction bank and harmonic filter banks are designed for commercial, industrial and utility power systems requiring power factor correction or harmonic control and to improve voltage regulations.
- The harmonics producing load current is observed by the harmonic filter bank and the current flowing back towards the utility is virtually harmonic free. In addition to reducing distortion, the filter bank produces reactive power to improve power factor and reduce reactive demand and power factor penalties.
- Typically, are connected at the medium voltage service point between the utility supply and the customer's load.

PASSIVE HARMONIC FILTER

- Available in 0.5KW to 250 KW
- PHF is a series broad band, automatic On-Off harmonic filter
- PHF is a hybrid topology
I.e. it is connected in line with the non-linear load (VFD, UPS, and Rectifier)
- PHF reduces current harmonic distortion to below 8% at full load.
- PHF not only mitigates harmonics but also Improves power factor at load end to near unity
- PHF is an effective solution for switching transients and line surges
- PHF has minimum self-losses
I.e. max 1% of full load and are even less at lesser loads



ACTIVE HARMONIC FILTER

1. Modular design
2. Cabinet installation
3. 2-50th harmonics
4. LCD Display
5. 3 phase 4 wire or 3 phase 3 wire
6. Hi-tech power quality solution
7. Cabinet installation: The maximum are 6 Pcs
of the cabinet dimensions of 2200×1000×600(H×W×D)



Current and Potential Transformer (CT & PT)

Current Transformer:

Current transformer designed to scale down replica of the current in the MV lines and isolate the measuring instruments meters, relays etc. from the power circuit.

1. Indoor CT with Epoxy insulation upto 33KV:

Burden & accuracy class as per IS Standard.

$I_s=5$ or $1A$.

I_{th} Upto 50KA.



2. Oil Cooled CT upto 33KV:

Burden & accuracy class as per IS Standard.

$I_s=5$ or $1A$.

I_{th} Upto 50KA.



Potential Transformer:

Potential transformer designed to present negligible load to the supply being measured and have an accurate voltage ratio and phase relationship to enable accurate secondary connected metering.

1. Indoor PT with Epoxy insulation upto 33KV:

Burden & accuracy class as per IS Standard.

V F can range upto 1.9 for 8 Hrs.

Single pole, double pole or 3 phase PT.



2. Oil Cooled PT upto 33KV:

Burden & accuracy class as per IS Standard.

V F can range upto 1.9 for 8 Hrs.

Single pole or 3 phase PT.



CUSTOMERS



Kirloskar Pneumatic Company Ltd. - Pune



MRF Limited- Goa



Sapience Engineers- Delhi



Poona Forge Pvt. Ltd. - Pune



M/s, Jay-deep Ispat- Indore



Network Techlab Pvt. Ltd. – Mumbai



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AUTHORIZED DISTRIBUTORS

