TRINITY RTPFC Panels

Disadvantages of LOW PF :-

- High Energy Consumption (KVAH will increase)
- High Power Factor Penalty
- Maximum Demand will Increase
- Electrical Equipment over heating / failure
- High cable / Bustrar rating required.
- High T/F Rating required

TRINITY RTPFC

Advantages for End user

- It will maintain the Power Factor 0.90 TO 1.00 In Any Kind of Load conditions like welding machines, Overhead cranes, diamond cutting tool furnaces, any fabrication load, single phase load
- No zero crossing card, random switching cause capacitor brust and contactor damaged
- 3 Phase Power Factor correction will not maintain the Power Factor in unbalanced
- Detuned reactors will damage the capacitors and electronic equipments
- Very High Maintenance
- Need to Replace the Capacitor and contactor after every 3-4 months

ALMOST NO MAINTENANCE

T/F and cable rating will reduced
Electrical Equipments life will increase/ Less maintenance

Payback Period
6-12 Months

Difference Between

RTPFC Panel

- Very fast switching 8 times in 1 second which will help to maintain the PF in real time
- Zero Crossing card. which will make switching on zero cross over
- Single Phase wise PF correction which will correct the PF in unbalanced load also
- Detuned reactors to block the harmonics
- Very low Maintenance
- Increase the life of capacitors to 3-4 times

Normal APFC Panel

- Very slow switching 10-60 sec. Power Factor will not maintain in jerking load condition
- No zero crossing card, random switching cause capacitor brust and contactor damaged
- 3 Phase Power Factor correction will not maintain the Power Factor in unbalanced
- No Detuned reactors used so harmonics will damage the capacitors and electronic equipments
- Very High Maintenance
- Need to Replace the Capacitor and contactor after every 3-4 months

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Power Quality Analyzer - ORACLE

**APPLICATION:**
- Energy Audits, Load Balancing,
- Power Factor Survey,
- PQ Investigation,
- Harmonic Analysis, Load Profiling

- Touch Screen TFT Display with all visual data
- Rugged Usage and data transfer on USB
- Non Volatile memory to store maximum records
- Plug and play device with Suitable CT/PT
- Harmonic Analysis & Mitigation Solutions
- Data Retrieval through USB Port

**SMART ENERGY MANAGEMENT SYSTEM**

- EMS FOR 24x7 ENERGY MONITORING OF YOUR FACILITY
- CUSTOMIZED REPORT FORMATS
- CUSTOMIZED ALERTS
- DAILY EMAIL REPORTS

The most advanced **AI based IOT Solution**
for **Prepaid & Postpaid** Metering Application