TRINITY RTPFC Panels



ALMOST NO MAINTENANCE

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 / Bustar 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 to the device of the device
- Power press and any type of load which is jerking /momentory and unbalanced
- Reduce the KVAH CONSUMPTION
- Mo Power Factor Penalties
- Reduce the Maximum Demand
- No Maximum Demand PenaltyT/F and cable rating will reduced
- ▼ Electrical Equipments life will increase/ Less maintenance

Difference¹

Between

RTPFC Panel

- **v** Very fast switching 8 times in 1 second which will help to maintain the PF in real time
- **U** Zero Crossing card. which will make switching on zero cross over
- **U** Single Phase wise PF correction which will correct the PF in unbalanced load also
- **b** Detuned reactors to block the harmonics
- **b** Very low Maintenance
- **b** 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
- S 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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Payback Period 6-12 Months

POWER QUALITY MANAGEMENT

Power Quality Analyzer-ORACLE

APPLICATION:

Energy Audits, Load Balancing,
Power Factor Survey,
PQ Investigation,
Harmonic Analysis, Load Profiling

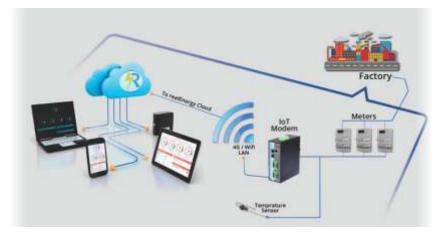
- Touch Screen TFT Display with all visual data
- Rugged Usage and data transfer on USB
- Non Volatile memory to store maximum records
- Plug and play device with Suitable CT/PT
- Harmonic Analysis & Mitigation Solutions
- Data Retrieval through USB Port





Portable **Power Analyzer**

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