

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 load
- ✓ Power press and any type of load which is jerking /momentory and unbalanced
- ✓ Reduce the KVAH CONSUMPTION
- ✓ No Power Factor Penalties
- ✓ Reduce the Maximum Demand
- ✓ No Maximum Demand Penalty
- ✓ T/F and cable rating will reduced
- ✓ Electrical Equipments life will increase/ Less maintenance

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 burst 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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**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**

