



AUTOMATIC POWER FACTOR CONTROLLER (APFC) PANEL



AN ESCO COMPANY
EMpaneled WITH
BUREAU OF ENERGY
EFFICIENCY, GOVT. OF
INDIA, MINISTRY OF
POWER



OUR PROFILE

Established in 2009, **BNN Power** is a reputed developer, manufacturer and service provider. All our Technical products are best in performance and provide complete reliability to the users. Under the visionary leadership of our mentors, we have been able to make ourselves well-known brand of Industrial and commercial sectors in the national market. Bureau of Energy Efficiency, Govt. of India, Ministry of power empanelment as an Energy Service Company is our credential.

THE OBJECTIVE

BNN Power is a Mumbai, based ESCO (Energy service Company) empaneled with Bureau of Energy Efficiency, Govt. of India, Ministry of Power. Engaged in developing an extensive range of innovative PRODUCTS to the customers of Various types of Industrial, Textile, Medical & Commercial sectors.

Acknowledged for reliability, innovative idea and availability with lower price, Our range of PRODUCTS is widely used in Saving Energy for LED Lights & Motor/Mixed Load, Harmonics Control, Solar Street Light, Power Factor control with or without capacitors and many other purposes.

APFC PANELS

Consumer devices determines the fitness & quality of electrical power. It also refers to the relative frequency and reactive power deviations produced by electrical equipment from steady or fundamental 50 Hz, sinusoidal waveform of voltage or current. These deviations may affect the safe or reliable operation of electrical equipment's such as circuit breakers, motors, fans, Variable frequency drives, CNC machines, LED Lamps, computers etc.



BNN POWER Automatic Power Factor Correction System is unique with its customized design, based on the Load Study conducted on site with Power Quality analyzer with recording. Electrical loads such as motors can cause electrical systems to be very inductive, which results in vary 'lagging power factor' whereas loads like UPS can cause Electrical load to be capacitive, which result in 'leading power factor' we consider both to maintain $KWH=KVAH$.

WHAT'S THE PURPOSE OF AN APFC PANEL ?

Poor power factor in electricity brings heavy penalty charges in electricity bill. Hence in order to improve & control the power factor between 0.95 & 1, a power factor corrector or Automatic Power Factor Control panel (APFC Panel) should be installed. Therefore APFC not only corrects poor Power Factor but also control demand KVA, thus rebate in the electricity bill.

WHAT TYPES OF CAPACITOR BANKS ARE USED IN AN APFC PANEL?

There are many types of capacitor bank available for power factor correction. Prominent are:

- Light Duty capacitors - Having limited life as per site power distortion (Below one year)
- Heavy Duty / Super Heavy duty type capacitors - Having unlimited life in spite of site power distortion (Above Two Years)
- Oil filled capacitors - Having unlimited life in spite of site power distortion (Above Two Years)

WHAT ARE THE ADVANTAGES ?

BNN POWER Automatic Power Factor Control Panel (APFC Panel) protects consumer from increased power factor penalty charges in electric bills and also saves electrical consumption in the form of cable/transformer burdon reduction . In few states KVAH billing is mandatory for HT consumers, thus impact on Electricity bill is huge. Furthermore it also maintain demand KVA, thus monthly Demand KVA charges reduced.

FEATURES



- SITE PROVEN ROBUST DESIGN FOR HT/LT POWER CONSUMERS.
- MOST ADVANCED MICRO PROCESSOR TECHNOLOGY ADOPTED.
- DEDICATED AUTOMATIC OPERATION FOR KVAR SELECTION.
- THE TARGET POWER FACTOR CAN BE SET PRECISELY AS PER CUSTOMER REQUIREMENT.
- THREE POLE MCCB FOR APFC BACK UP PROTECTION.
- INDIVIDUAL CAPACITOR BACK PROTECTION BY MCB/MCCB.
- ZERO VOLTAGE SWITCHING THROUGH THYRISTOR TO LIMIT SWITCHING SURGES (THYRISTOR PANEL).
- SELECTABLE POWER FACTOR CORRECTION DELAY TIME.
- DISCHARGE RESISTANCE ON INDIVIDUAL CAPACITOR.
- STAGE ON LED INDICATOR.
- POWER & CONTROL WIRING WITH COPPER MULTI STRAND WIRE.
- WORKING TEMPERATURE UP TO 55°C.
- CABLE ENTRY AT THE BOTTOM (TOP OPTIONAL).
- INDOOR/OUTDOOR INSTALLATION AS PER CUSTOMER REQUIREMENT.
- DUST PROOF CRCA PANEL WELL VENTILATED FOR CAPACITORS.
- ONLINE MONITORING FOR RKVAH LAG & LEAD (OPTIONAL).
- DE-TUNED REACTOR WITH DESIRED 189HZ FREQUENCY.



DIRECT BENEFITS

- Power Factor improvement near unity
- Reduction in MD kVA Reduction in KWH Consumption
- Reduction in KVAH billing
- Avoid PF Penalty Availing PF Incentive
- Maintain KWH=KVAH

INDIRECT BENEFITS

- Reduction/Avoidance of Motor winding Failures
- Improved System Performance due to Healthy Voltage
- Low Electric Break Downs/ Reduced Plant Down Time
- Reduces Transformer losses & cable burden
- Reduced heat reduces power consumption

BNN POWER APFC PANELS ARE CUSTOM ENGINEERED TO PROVIDE THE FEATURES AND CAPABILITIES YOU NEED. CHOOSE FROM OUR FULL RANGE OF STANDARD, PRE-CONFIGURED APFC PANELS THAT COMBINE HIGH PERFORMANCE WITH EASY ORDERING AND RELIABLE DELIVERY, TO FULFIL YOUR REQUIREMENTS.

RATINGS-
15KVAR TO 2000KVAR
3 PHASE, 415V AC

CLIENTS



AND MORE



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