ARVI
POWER OF TRUST

Precision Voltage & Frequency regulation
for sensitive equipment.

Regenerative load handling,

# ACTIVE INDUSTRIAL POWER-CONDITIONER

## AIPC303 10KVA - 200KVA

**Optimises Equipment Life**
**by 30%-40%.**
**for CNC & Laser machines**

- Reduces service cost of OEMs by 30%
- Maximises the **uptime of process**
- Improves profits by 30%

- Complete Power Conditioner
- High accuracy voltage conditioner
  400VAC + 1% with a correction speed of 300V/5ms
- Frequency converter
- Static Stabiliser
- Power-factor corrector
- Galvanic isolation

Best In-house R&D
ISO 9001-2015

www.ArviUPS.com

## How to best protect your investment?
## By providing impurity-free, high grade quality of power, which is the fuel for your infrastructure to perform optimally.

**Using premium quality power conditioner with comprehensive power protection.**

Power quality is an important consideration to any business that uses medium to large amounts of power. Chances are, inefficiencies in the supply of that power is costing you money. You may be paying for power that you do not use, or the quality of power you receive may be having detrimental effects on your equipment. High power bills, downtime and machine and equipment wear are all results of poor power quality.

Conventional servo controlled voltage stabilizer offers very poor response to dynamic voltage fluctuations and allows **intolerant levels of high voltage** to your equipment, (during the correction time) which increases **the risk of premature failure.**

**The Industrial grade AIPC protects the connected equipment from**

- Frequency variations
- Voltage fluctuations
- Under voltage
- Over voltage
- Neutral drifts
- Voltage sag
- Surges
- Spikes
- Lightning

**INDUSTRIAL GRADE DESIGNED FOR HARSH ENVIRONMENT**

Premature equipment failure, abrupt process interuption etc are the **tangible effects of low power quality**. Eventhough the effects are not immediately perceived, **the equipment life expectancy is cut short by 30%-40%** due to comprimised quality of power.

**STATIC HIGH-SPEED VOLTAGE STABILISATION USING IGBT**

**UNITY POWER FACTOR CORRECTION 100% INDIGENOUS DESIGN.**

Regenerative load handling,

## ACTIVE INDUSTRIAL POWER-CONDITIONER

Justify the investment done on the infrastructre by providing impurity-free, high grade of power which is the fuel for your infrastructre for optimium product life & process uptime.

PREMIUM GRADE QUALITY POWER COMPREHENSIVE POWER PROTECTION

**ENHANCES EQUIPMENT LIFE BY 30%-40%.**

AIPC303 10KVA - 200KVA

- Fully DSP controlled, IGBT technology
- Automatic input phase reversal correction
- Single phase prevention
- Input Power Factor corrected to near Unity
- Raw power voltage THD is corrected
- Acts as a constant frequency source
- Protection against lightning and neutral drifts

## HIGH ACCURACY VOLTAGE CONDITIONER

400VAC + 1% with a correction speed of 300V/5ms-20ms.
In comparison the Servo-controlled Voltage Stabiliser has a maximum correction speed of 70V/sec & the AIPC is faster by 100 times.

- **Constant Output Frequency**
  50HZ ±1% With an input frequency variations from 45-55Hz.
- **Fail-safe protection against lightning.**
  Also against nuetral drifts, impurities in the input.
- **Output Voltage THD - <5%**
  Input voltage THD in Industrial areas varies from of 7-10%.

AIPC does not pass any high voltages to the load due to its fast voltage correction capability. In a conventional servo stabiliser the load is subjected to high voltage for a considerable amount of time (approximately 60 power cycles) due to slow response time. **This is one of the prime reasons for the premature failure of electronic and electrical equipment.**

# 10KVA - 200KVA AIPC 303
## Series Industrial Power-Conditioner

## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **TECHNOLOGY** | | DSP based, Power-conditioning technology using IGBT. |
| RATING | | 10KVA - 200KVA |
| **INPUT** | | |
| Input Voltage | | 415VAC, 3Ø & N |
| Input Voltage Window | | 330VAC - 470VAC |
| Input Frequency | | 45-55Hz |
| Input PF | 100% load | > 0.99 / <10% THDi. |
| Topology | | IGBT based MPWM with instantaneous Sinewave Control |
| Output PF | | 08lagging to Unity |
| Nominal Voltage | | 400VAC |
| Regulation | | ( ± ) 1% |
| Frequency | | 50 Hz ± 0.1Hz |
| Waveform | | True Sinewave |
| Total | Linear Load | < 1.5% |
| Harmonic | Non Linear Load | < 4% |
| Transient Response | | Remains within +/- 5% & recover to normal within 20 msec |
| Over Load Capacity | 100%<br>125%<br>150% | Continuous<br>1 Minute<br>5 Seconds |
| Crest Factor | | 3:1 |
| Mode of Operation | | Designed for Continuous operation |
| ISOLATION | | Complete galvanic isolation |
| **BYPASS** | | |
| Manual Bypass | | Provided |
| Static bypass | | Provided |
| **ALARMS** | | |
| | | • Input / Low / Fail • Output overload • Over temperature |
| LED Indications (Single LED with multi function ) | | |
| | | • Mains on • PC On • Overload |
| **User Friendly LCD Display shows the following parameters** | | |
| | | • Input Voltage • Output Voltage |
| | | • Load current • Output Frequency |

Our esteemed customers have been using AIPC for various applications across the country from past 19yrs and have certified the performance of the same.

## A FEW OF APPROVED VENDOR FOR

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