



Advanced Active Power PFC Online UPS 10KVA - 400KVA



with Predictive Analysis Technology



**REGENERATIVE
LOAD HANDLING**



**27TH YEAR OF OEM
MANUFACTURING AND EXPORT**



**100% INDIGENOUSLY DESIGNED
IN THE IN-HOUSE R&D**



Optimise production process to improve Productivity and profitability...

Galvanic isolation offers

Comprehensive Protection and High Availability.

Mains grade raw power contains impurities and large percentages of harmonics injected into the line by various non-linear loads. The common problem of neutral drift can produce considerable increase in output voltage and permanently destroy your critical loads and data.

Isolation transformers increase load protection and ensure human safety by isolating the AC leakage current from developing a potential between the input and ground. Isolated output enhances the attenuation of common mode noise by increasing the impedance between the input and output.

Provides protection of loads against lightning. Galvanic isolation via transformer is the only way to safely protect loads from lightning. It provides protection from high energy transients, which are clamped at the AC input from propagating to the output.



Galvanic Isolation for Comprehensive Power Protection

Advanced Active Power PFC Online UPS

Features

- Power Factor Corrected
- Digital Signal Processor
- Isolation Transformer
- SNMP
- Autobypass

Power Factor Correction

- Reduces the running cost in terms of electricity bill
- Prevents the overrating of electrical wire
- Reduce reflected harmonics back to the source
- Savings in sizing of utility transformer & generator

Technology

- DSP technology IGBT inverter - IGBT converter

Topology

Bifilar PWM switching

Interface

- SNMP compatible User-friendly LCD display True RMS reading
- Fault condition
- Status display
- Event logging

Ideal Power-conditioner

- Constant Frequency source
- Premium Quality Galvaically isolated Power
- Power Factor Corrector

Technical Specifications

10KVA - 400KVA PFC303 series Online UPS

TECHNOLOGY		DSP based, IGBT convertor, IGBT inverter UPS
RATING		10KVA - 400KVA
DC BUS		192VDC - 384VDC
INPUT		
Input Voltage		415VAC, 3Ø & N
Input Voltage Window		330VAC - 470VAC
Input Frequency		45-55Hz
Input PFC	100% load	> 0.95
Power walk in		Softstart for 0-20seconds powerwalk-in.
RECTIFIER		
Type		IGBT based full bridge
Voltage Regulation (±) 1%		
Ripple Voltage		< 2%
Converter Protection		Advanced Electronic Protection for device safety backed up, with MCB's/ MCCBs & fast acting fuses
INVERTER		
Inverter Type		IGBT based MPWM with instantaneous Sinewave Control
Output PF		0.8 lagging to unity
Nominal Voltage		415VAC, 3Ø, P-P / 230VAC, 1Ø, P-N
Regulation		(±) 1%
Frequency		50 Hz ± 0.1Hz
Waveform		True Sinewave
Total Harmonic Distortion	Linear Load	< 2%
	Non Linear Load	< 5%
Transient Response		Remains within +/- 5% & recover to normal within 20 msec
Capacity	100%	Continuous
	110%	10 Minutes
	150%	1 Minute
Crest Factor		3:1
Mode of Operation		Designed for Continuous operation
ISOLATION		True Online with complete galvanic isolation.
Inverter Protection		Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses, high speed pulse by pulse electronic device protection over voltage/ under voltage protection, Electronic over current trip.
BYPASS		
Manual Bypass		Provided
ALARMS		
		• Input / Low / Fail • Output overload • Over temperature • Battery low
LED Indications (Single LED with multi function)		
		• Mains on • UPS on • Battery Low • Overload
		• Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage