Microtekpower™
since 1990
Pioneer In Power

Advanced Active Power

PFC Online UPS

PFC 301 3Φ-1Φ 5KVA - 40KVA

DSP based
Power Factor Corrected Online UPS

With GSM interface
for remote power monitoring and control

20th year of OEM
manufacturing and export

Predictive self analysis

GSM based monitoring & control

Real timestatus, Alertmesasageforpreventive action.

The intelligent DSP based UPS monitors Battery health and UPS power - sends an SMS alert during fault conditions and also sends a report of the same every day.

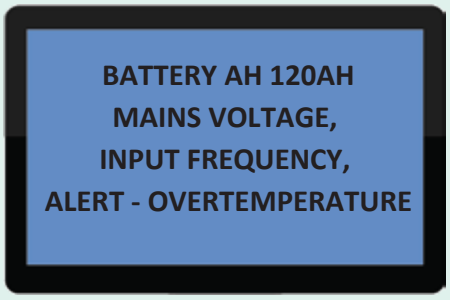
User can also receive real-time status of the battery & UPS by sending an SMS from your registered mobile number to the UPS mobile number.

Monitoring

SMS STATUS from the registered mobile number and get instant SMS about the mains input voltage, output voltage, battery voltage, load current etc. Also receive SMS alert for pre-trip like battery low, overload and over temperature.

GSM based SMS pre-trip alert for initiating necessary preventive action

Portable wireless device.



Monitor from anywhere

Real time status,
Alert message with configurable alarm.

The portable wireless display can be used to monitor the UPS from anywhere. (Maintenance department, from home, practically from any part of the world).
Receive alert messgaes with alarm (programmable) well in advance in order to initiate a preventice action; improving uptime and profitability.

Switch ON/OFF any machine remotely using mobile.

Remote ups monitoring software interface

SNMP-simple network monitoring protocol

Monitoring

Diagnosis

Preventive ac tion

Monitor the UPS mains input voltage, output voltage, battery voltage, load percentage etc from a remote location.

SNMP feature facilitaes the user to carry-out preventive action remotely without physically reaching the UPS. Pre-trip alarm pops on the monitoring screen prompting the user/system admin/maintenance engineer to initiate preventive action. Without the SNMP feature, the pre-trip alarms are often unnoticed as the UPS is located away from the users and can cause ungraceful shutdown of machines/servers/process.

100% Indigenous design

IGBT based PFC rectifier

Industrial Grade
Designed for Harsh Environment

100% Indigenous Factory - With In-House R&D.

- CNC, laser cutting, wire EDM cutting etc
- Process and Automation application
- Data centres, IT, servers
- Office, Hospitals, Educational institutes
- MRI & CT scanners
- Digital & offset printing
- Analytical & research labs

Uninterupted Premium Quality Power using Power-Conditioning topology

The factors contributing to the pre-mature failure of electrical gadgets and evantually the system failure is not limited only to voltage fluctuations but also the poor quality of power. Hence, importance should not only be given for power availability but also for quality power availability.

PFC 301 is a complete Power-conditioner & Power Factor Corrector

Optimises the product life & process uptime by 35%-40%.

- Constant voltage, frequency, High Grade Premium quality power.
- Galvanic isolation at the output.
- Operating ambient temperature 0-45 degrees.
- Overload handling capability of 150% for 1 minute. High surge handling capability.

Optimise production process to improve Productivity and profitability...

Galvanic Isolation for Comprehensive Power Protection

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 onlyway 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.

Advanced Active Power PFC Online UPS

Technology

- DSP technology IGBT inverter - IGBT converter

Toplogy

- Bifilar PWM switching

Interface

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

Ideal Power-conditioner

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

Features

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

Power Factor Corrections

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

Technical Specifications

PFC 301 — 5KVA - 40KVA

TECHNOLOGY		DSP based, IGBT inverter-IGBT converter Online UPS.
RATING		5KVA - 40KVA
DC BUS		192VDC - 360VDC
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 0-20 seconds power walk-in.
RECTIFIER		
Type		IGBTbased full bridge
Voltage Regulation (±)1%		
Ripple Voltage		< 2%
Converter Protection		Advanced ElectronicProtection for device safety backed up, withMCB's/ MCCBs& fast acting fuses
INVERTER		
Inverter Type		IGBTbased MPWMwith instantaneous Sinewave Control
Output PF		0.8 lagging to Unity
Nominal Voltage		230VAC, 1Φ, P-N
Regulation		(±) 1%
Frequency		50 Hz ± 0.1Hz
Waveform		True Sinewave
Total Harmonic	Linear Load	< 2%
Distortion	Non Linear Load	< 5%
Transient Response		Remains within +/- 5% & recover to normal within 20 msec
Over Load	100%	Continuous
Capacity	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 bypulse electronic device protection over voltage / under voltage protection, Electronicover current trip.
BYPASS		
Manual Bypass		Provided
ALARMS		
		• Input / Low / Fail• Output overload • Over temperature • Battery low
LED Indications (SingleLED with multi function)		
		• Mains on • UPS on • Battery Low • Overload
		• Input Voltage • Output Voltage • Load current•OutputFrequency•BatteryVoltage