

Online UPS

specially designed
for CT, MRI scanner & X-Ray machines

**PFC iPL
Online UPS
10KVA-200KVA**

Save on cost of warranty & downtime escalations,
reduces service cost of OEMs by 30%



Mitochondrian Concept

Managed Power Storage and Deliver

Limits the Peak Power Consumption Utility
Allows to operate at lower sanctioned power or to use a
lower capacity generator.

- Wireless display for remote power monitoring
- Galvanic isolation at the output for comprehensive power protection.
Input to output galvanic isolation for operator and patient safety.

*Input Power Limiting Facility



This facility reduces the power demand and the cost of input transformer, generator, initial deposit for additional power sanctions and recurring electricity bills in hospitals and diagnostic centres who would have difficulty in availing higher KVA power sanctions.

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.



Advanced Active Power PFC Online UPS

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 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

Uninterrupted Premium Quality Power using Power-Conditioning topology

The factors contributing to the pre-mature failure of electrical gadgets and eventually 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.



IGBT based PFC rectifier



Industrial Grade
Designed for Harsh Environment

PFC 303 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.
- Overload handling capability of 150% for 1 minute.
- Galvanic isolation at the output.
- Operating ambient temperature 0-45 degrees.
- High surge handling capability.



Best In-house R&D
ISO 9001-2015

**National award winner from SoftDisk
"Most innovative power solution of the year 2016."**

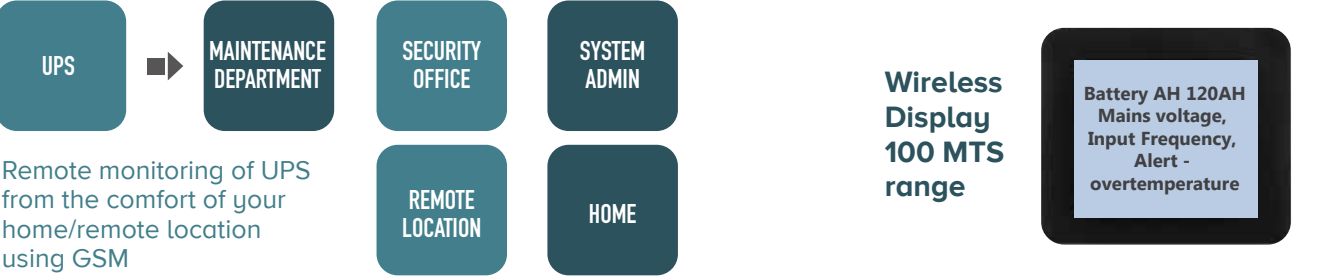
Remote monitoring within the factory premises (100mts) wireless transmission without any GSM connectivity.

Technical Specification

Online UPS for CT, MRI scanners & X-ray machine

10KVA -200KVA PFC iPL303

TECHNOLOGY	DSP based, IGBT inverter-IGBT converter Online UPS.
RATING	10KVA - 200KVA
DC BUS	240VDC - 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	Soft start for 0-20 seconds power walk-in.
Input Power Limiting	The power consumption limit is programmable from 30%-100% of input power.
RECTIFIER	
Type	PFC (Power Factor Corrected) IGBT based full bridge using DSP.
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 (Output voltage can be customised as per requirement)
Regulation	(±) 1%
Frequency	50 Hz ± 0.1Hz
Waveform	True Sinewave
Total Harmonic Distortion	< 2% for linear laod & <6% for non-linear loads.
Transient Response	Remains within +/- 5% & recover to normal within 20 msec
Over Load Capacity	100% Continuous, 110% for 10mins & 150% for one minute.
Crest Factor	4:1
Mode of Operation	Designed for Continuous operation
ISOLATION	
True Online with complete galvanic isolation. Galvanic isolation at the output for comprehensive power protection. Input to output galvanic isolation for operator and patent safety.	
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	
Remote Power Monitoring	
•Wireless Display • GSM Interface • SNMP Interface • BMS compatible	
LED Indications (Single LED with multi function)	
• Mains on • UPS on • Battery Low • Overload	
User Friendly LCD Display shows the following parameters	
• Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage	
Ambient tempearture	0 - 40°C
Enclosure Protection grade	IP - 20
Testing standards	As per IEC 62040 - 3



MODBUS, SNMP, GSM, RS485 Interface BMS Compatible

SNMP-Simple Network Monitoring Protocol

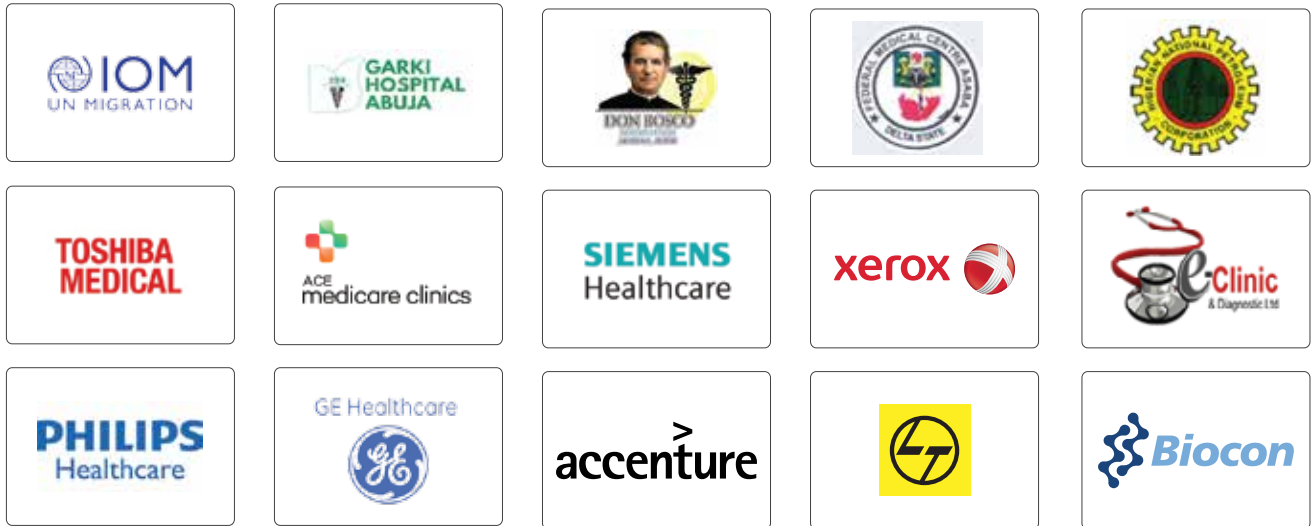
Monitoring	Diagnosis
SNMP feature facilitaes the user to carry-out preventive action remotely without physically reaching the UPS. Pre-trip alarm pops on the monitoring screen prompting the user/system admin/maintenance engineer to initiate preventive action.	Without the SNMP feature, the pre-trip alarms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

GSM Interface

Preventive action
GSM based SMS pre-trip alert for initiating necessary preventive action.
Monitor the UPS mains input voltage, output voltage, battery voltage, load percentage etc from a remote location.
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.

Approved vendors for

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



PARTIAL LIST



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