



Industrial-grade Online UPS

for process automation and other Industrial applications.

Applications : Non-linear, Industrial loads

- Laser cutting
- CNC
- Wire EDM machines
- SPMs
- Line Motors
- Heaters
- Automated industrial process
- Compressors
- Chillers etc



Industrial grade design

PFC-IGC303HS 10KVA to 400KVA

Customised to handle high surge load



www.ArviUPS.com

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-IGC303HS 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 |

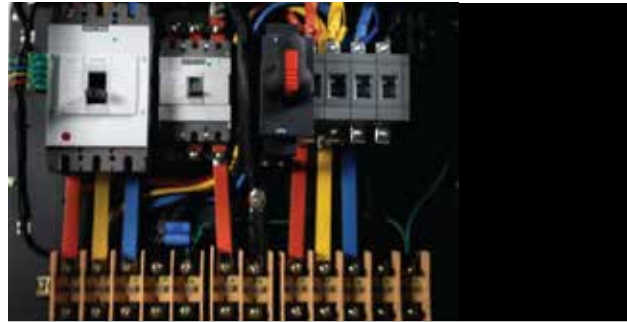
Ideal Power-conditioner

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

100% Indigenous design



IGBT based PFC rectifier



Industrial Grade
Designed for Harsh Environment

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

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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.

PFC-IGC303HS is a complete Power-conditioner & Power Factor Corrector

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

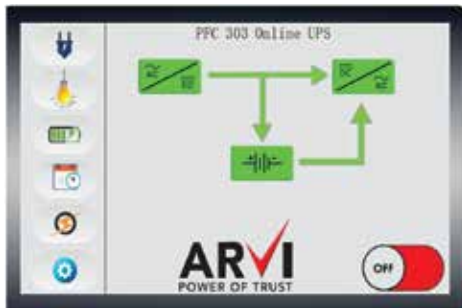
- Constant voltage, frequency, High Grade Premium quality power.
- Galvanic isolation at the output.
- Operating ambient temperature 0-45 degrees.
- Overload handling capability of 150% for 1 minute.
- High surge handling capability.



Best In-house R&D
ISO 9001-2015

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

TFT, touch screen, color display



Graphical display of UPS status, load percentage and battery levels

- Input voltage
- Output voltage
- Battery voltage
- Output power in KVA
- Output power in KW
- Output PF
- Output frequency
- Load percentage
- Over-temperature warning

Predictive self analysis

The uptime is significantly enhanced using the intelligent DSP based Predictive Self Analysis built-in in the UPS. Using 16 sensors, the UPS periodically carries-out Self Analysis of various parameters and initiates alarm for preventive and corrective action well in advance and facilitates high uptime of machines and process.

SNMP-simple network monitoring protocol

Monitoring

Diagnosis

Preventive action

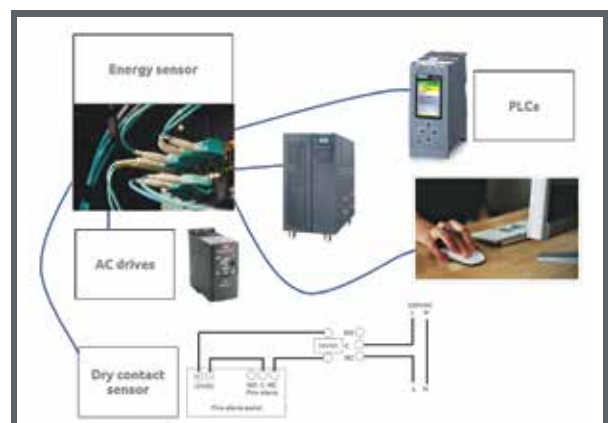


**GSM based
SMS pre-trip alert for
initiating necessary
preventive action.**

MODBUS-BMS Interface

BMS - Building management system / BAS - Building automation system / IAS - Industrial system automation System, is a computer-based control system installed in buildings that controls and monitors the building's energy usage, lighting, safety, Heating/cooling, power systems, security and surveillance etc.

FC-400 is compatibility to communicate with other equipment, notify faults or power outage to carry-out preventive / corrective action are some of the unique benefits of BMS.



Technical Specifications

10KVA - 400KVA PFC-IGC303HS - Series Online UPS

TECHNOLOGY			DSP based, IGBT inverter-IGBT converter Online 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			Soft start for 0-20 seconds power walk-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	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 by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip.
BYPASS			
Manual Bypass			Provided
ALARMS			
LED Indications (Single LED with multi function)			• Input / Low / Fail • Output overload • Over temperature • Battery low
			• Mains on • UPS on • Battery Low • Overload
			• Input Voltage • Output Voltage • Load current • Output Frequency • Battery Voltage

Approved vendor for

Our esteemed customers have been using PFC-IGC303HS for various applications across the country from past 19yrs and have certified the performance of the same.



PARTIAL LIST



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