27th Year of Excellence

ARVI POWER OF TRUST

INDUSTRIAL GRADE, GREEN ONLINE UPS

HG-303 12YPL GCon

Designed and built for harsh environment, with 12 years of product life

HIGH GAIN TOPOLOGY

with **HIGH OVERALL EFFICIENCY** and Green converter

with 0.99PF and <3%THDi

40KVA / 60KVA / 80KVA / 100KVA

40 to 44 batteries(480VDC - 528VDC)

Designed in our in-house R&D

100% INDIGENOUS

Manufactured in our facility in India

12 years of unconditional spares support

Isolation transformer
at the output (**optional**)

Active soft harmonics convertor.

Green converter

with active input power factor correction (0.99PF) and low input current harmonics(<3% THDi).

IGBT based, DSP controlled, low harmonics topology

Power Factor Correction

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

Technology

- DSP technology IGBT inverter - IGBT converter

Toplogy

- Bifilar PWM switching

High overall efficiency - High Gain

Saves electricity bill

The high overall efficiency of **HG-303** 12YPL **GCon** series of Online UPS, saves significant amount of electricity bill compared to conventional Online UPS.

Expedited ROI (Return on Investment)

Although high-efficiency UPS systems require a higher upfront investment, the long-term energy savings can lead to a quicker return on investment

100% Indigenous design

100% Indigenous Factory - with In-House R & D

Redundancy for mission-critical application

Available in load sharing parallel redundancy and hot-standby configuration

Communication Interface

SNMP, GSM, MODBUS-BMS, RS485

Optional - Galvanic isolation at the output

Industrial grade design
Built for harsh environment

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.

HG-303 12YPL GCon is a complete Power-conditioner & Power Factor Corrector

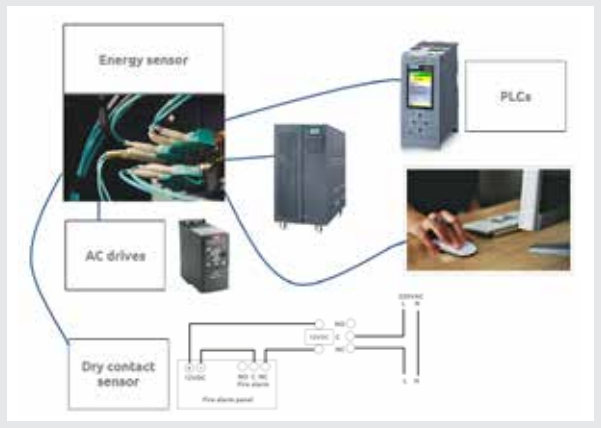
Optimises the product life & process uptime by 35%-40%.

- Constant voltage, frequency, High Grade Premium quality power.
- Operating ambient temperature 0 - 40 °c.
- 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."

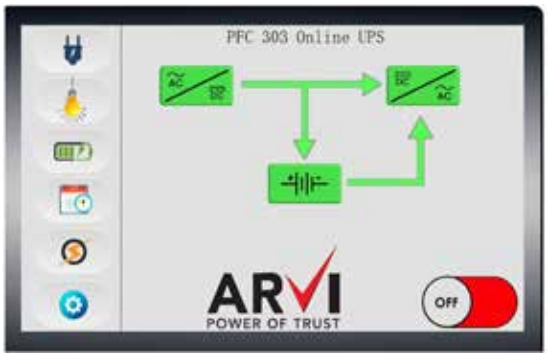
MODBUS-BMS Interface



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, saftey, Heating/cooling, power systems, security and surveyellence etc.

HG-303 12YPL GCon 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.

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

Remote UPS monitoring software interface

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 alarm often unnoticed as the UPS is located away from the users and can cause ungraceful hutdown of the machines/Servers/process.

Technical Specifications

HG-303 12YPL GCon - Series Online UPS

TECHNOLOGY		DSP based, IGBT inverter-IGBT converter Online UPS.
RATING		40KVA / 60KVA / 80KVA / 100KVA
DC BUS		480VDC - 528VDC
INPUT		
Input Voltage		415VAC, 3Ø & N
Input Voltage Window		330VAC - 470VAC
Input Frequency		45-55Hz
Input PF	100% load	> 0.99
Input THDi		<3%
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, 3Φ, P-P / 230VAC, 1Φ, 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
Over Load 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

Approved vendor for

Our esteemed customers have been using HG-303 12YPL GCon for various applications across the country and have certified the performance of the same.

PARTIAL LIST

Govt. of India certified
Importer & Exporter
Code: 0708009123

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RQ91/8880
ISO 9001-2015

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