ARVI
POWER OF TRUST

An ISO 9001 2015 Company

ACTIVE SHUNT UPS

Ensuring Uninterupted Process Continuity

Awarded as the "Most Innovative Power Solution of the year" by SoftDisk 2016.




Ensures seamless operation of Process equipment, line motors, heaters, compressors...

Better Profitability with

Optimised Process Availability and Productivity

With the increase in automisation of process and production lines to reduce cost, improve quality and productivity; **nothing could be more expensive than the interuption** of the production line due to the interuption of power.

Model

ASU-IG303 3Ø-3Ø

10KVA-300KVA

Zero-changeover - using Single Conversion topology

Saves electricity bills by 35%-40% in comparison to conventional Online UPS.

www.ArviUPS.com

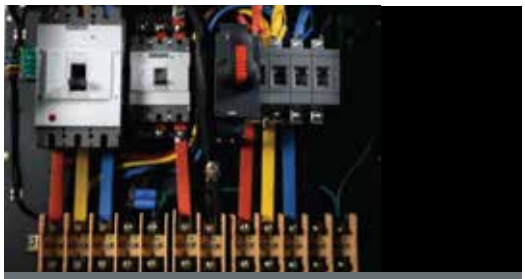
OEM/ODM UPS manufacturer since 1998.

Enhanced Power Availability

Leading to better productivity & Profitability

Active Shunt Smart Hybrid Power Technology

The DSP based Award winning **Active Shunt Topology** Seamlessly augments the Power Interuption - Gliding the connected loads from Mains to generator and back without any variation in speed/jerk of motors or flicker of lights.	Even the brief interuption due to generator change-over shuts down the critical and sensitive loads leading to loss of data and productivity.
Saves approximately 35%-40% of electricity bills in comparison to Online UPS.	The conventional solution for the above is an Online UPS which has the inherent problem of double conversion losses (Varying from 10% -30% as the power drawn from the processing varies) leading to huge losses in terms of electricity bills.



Industrial Grade design

Smart Hybrid Power Module in Active Shunt topology

DSP based Technology

Manufactured in our

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

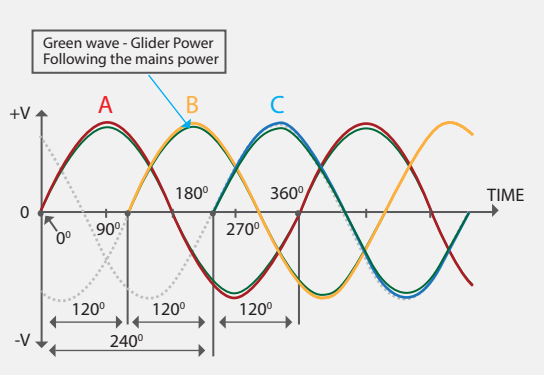
Applications

- Wire EDMs
- CNC Machines
- Dyeing & Bleaching Industry
- Bottling Plant
- Knitting & Weaving Machines
- Food Processing
- Automated Plants
- Processing Industry

Zero transfer time using Active Shunt Single conversion topology.

Active shunt - National award winner

"Most innovative power solution of the year 2016" by SoftDisk



Winner of the Best in-house R&D among the UPS manufacturers in India by SoftDisk for the year 2018-19

The backup Hybrid Power module actively tracks & follows the utility power supply in Active Shunt mode without supplying any power to the load as shown in the graph, untill the voltage drops to a pre-determined voltage achieving Zero transfer time without double conversion.

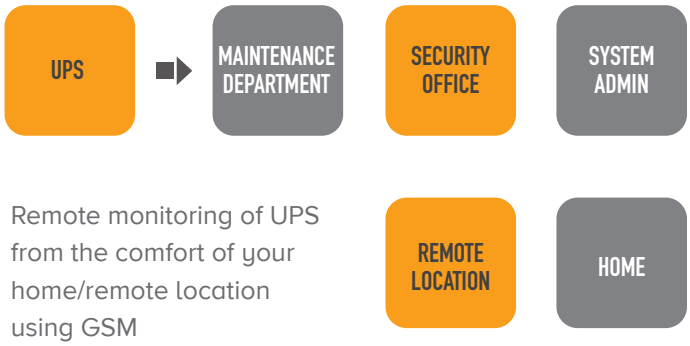
Benefits of ASU-IG303

- Zero changeover without double conversions.
  Saves approximately 35% - 40% electricity bills in comparison.
- Lesser number of batteries.
- Lower cost of ownership.

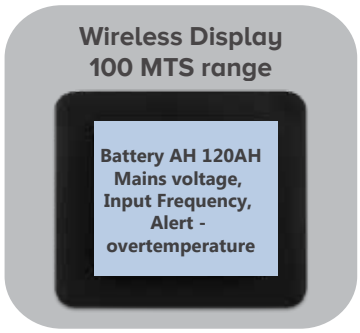
Dual Output

There is dual output termination to facilitate power saving along with fail-safe operation of process.
Active Shunt PLUS power output - Conditioned power for the sensitive loads.

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



Remote monitoring of UPS from the comfort of your home/remote location using GSM



MODBUS, SNMP, GSM, RS485 Interface BMS Compatible

SNMP-Simple Network Monitoring Protocol

Monitoring

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.

Diagnosis

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

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

Preventive action

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.

ASU-IG303 10KVA - 300KVA

TECHNICAL SPECIFICATIONS Smart Hybrid Power Backup

RATING		10KVA - 300KVA
DC BUS		120VDC - 360VDC
INPUT		
Input Voltage		415VAC, 3Φ & N
Input Voltage Window		± 15%
Input Frequency		50Hz ± 6%
Charger Type		CVCC
OUTPUT		
On Mains Mode		415VAC, 3Φ & N
Transfer time		
Battery to Mains and Mains to battery		Zero to 2ms
On Inverter Mode		415VAC, 3Φ & N
Regulation	Balanced Load	(±) 1%
	Unbalanced Load	(±) 1%
Frequency		50 Hz ± 0.1Hz
Waveform		True Sinewave
Total Harmonic	Linear Load	< 2%
Distortion	Non Linear Load	< 6%
Over Load Capacity	100%	Continuous
	125%	1 Minute
	150%	5 Seconds
Inverter Type		IGBT based PWM with instantaneous Sinewave Control
Transient Response		Remains within ± 5% & recover to 100% within one cycle
Crest Factor		3:1
Unbalanced Load Phase Shift		$120^0 \pm 0.5^0$
Manual Bypass		Provided
Active Shunt PLUS		Conditioned power for sensitive loads
EFFICIENCY		
On Mains Mode		>99 %
Inverter Efficiency		>88-92%

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ISO 9001-2015

Approved vendor for

Our esteemed customers have been using ASU-IG303 3Ø-3Ø UPS for various applications across the country from past 6yrs and have certified the performance of the same.

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PARTIAL LIST

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OEM/ODM UPS manufacturer since 1998.