

Active Shunt UPS **5KVA-300KVA 1Φ & 3Φ**

for Offices, Hospitals, Malls & Educational institutes



Ensures seamless functioning of Smartclass, PC Labs, printers, lights, projectors etc.



Zero-changeover using Single conversion topology

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

Model

ASU-IG 5KVA-300KVA 1Φ & 3Φ

Winner of the National Award
Most Innovative Power Solution of the year
in 2015 by SoftDisk.



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 Interruption - 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 interruption 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.

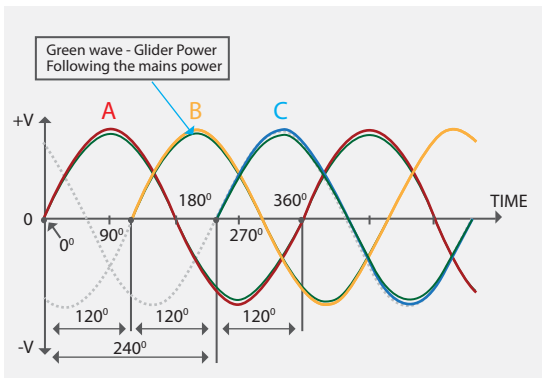
Applications

- PCs & Low end servers
- OT lights
- Billing, POS
- Photocopiers, OHP
- LED lights, tubelights, fans
- Laser & inkjet printers
- Security, surveillance
- Lifts, motors etc

Zero transfer time using Active Shunt Single conversion topology.

Active shunt - National award winner

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



Best In-house R&D
ISO 9001-2015

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, until the voltage drops to a pre-determined voltage achieving Zero transfer time without double conversion.

Benefits of ASU-IG UPS

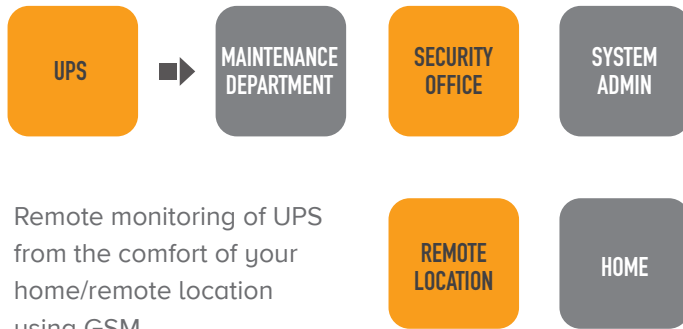
- Zero changeover without double conversions. Saves approximately 35% - 40% electricity bills in comparison.
- Lesser number of batteries.
- Lower cost of ownership.



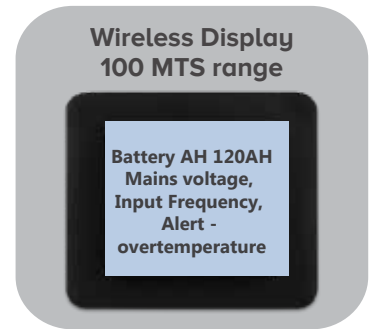
Dual Output

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 facilitates 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.

Active Shunt UPS

ASU-IG 5KVA-300KVA 1Φ & 3Φ

Smart Hybrid Power Backup 5KVA-300KVA 1Φ & 3Φ

TECHNICAL SPECIFICATIONS

ASU-IG 101

ASU-IG 103

RATING		5KVA - 15KVA	10KVA - 300KVA
DC BUS		48VDC - 360VDC	96VDC - 384VDC
INPUT			
Input Voltage		220VAC, 1Φ-1Φ	400VAC, 3Φ-3Φ
Input Voltage Window		± 15%	
Input Frequency		50Hz ± 6%	
Charger Type		CVCC	
OUTPUT			
On Mains Mode		220VAC, 1Φ-1Φ	400VAC, 3Φ-3Φ
Transfer time		0-2msec	
Battery to Mains and Mains to battery			
On Inverter Mode		220VAC, 1Φ-1Φ	400VAC, 3Φ-3Φ
Regulation	Balanced Load	(±) 1%	
	Unbalanced Load	(±) 1%	
Frequency		50 Hz ± 0.1Hz	
Waveform		True Sinewave	
Total Harmonic Distortion	Linear Load	< 2%	
	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 in 3Φ		120 ⁰ ± 0.5 ⁰	
Manual Bypass		Provided	
Active Shunt PLUS power port		Conditioned power for sensitive loads	
EFFICIENCY			
On Mains Mode		>99 %	
Inverter Efficiency		>88-92%	



80/A2, 1st Main, 3rd Cross, 2nd Phase Industrial Suburb, Yeshwanthpur,
Bangalore 560 022. Karnataka, India
Phone: +91-80-4155 8550 (5 lines) +91-80-23470657 / 23470658
enquiry@arviups.com • associates@arviups.com



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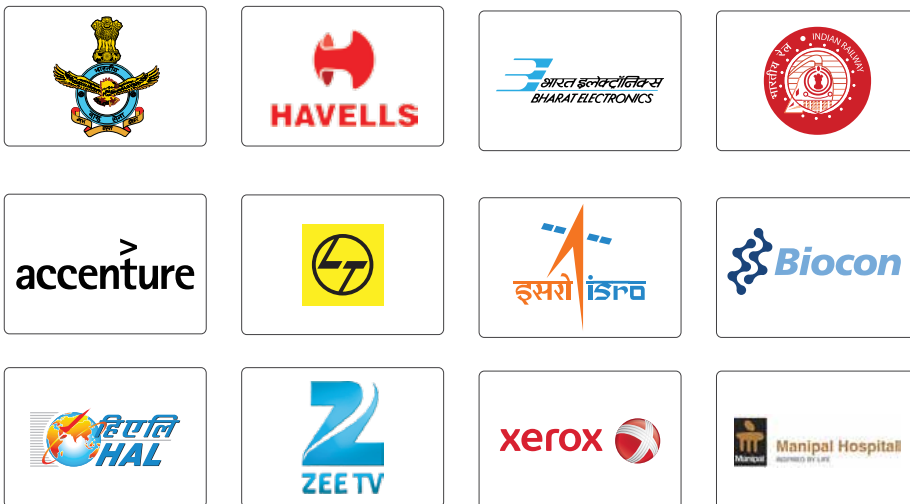


D&B
D-U-IN-S No. 65052622
NSIC-D&B-SMERA



Approved vendor for

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



PARTIAL LIST

www.ArviUPS.com
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