

ASU-IL 5KVA - 300KVA

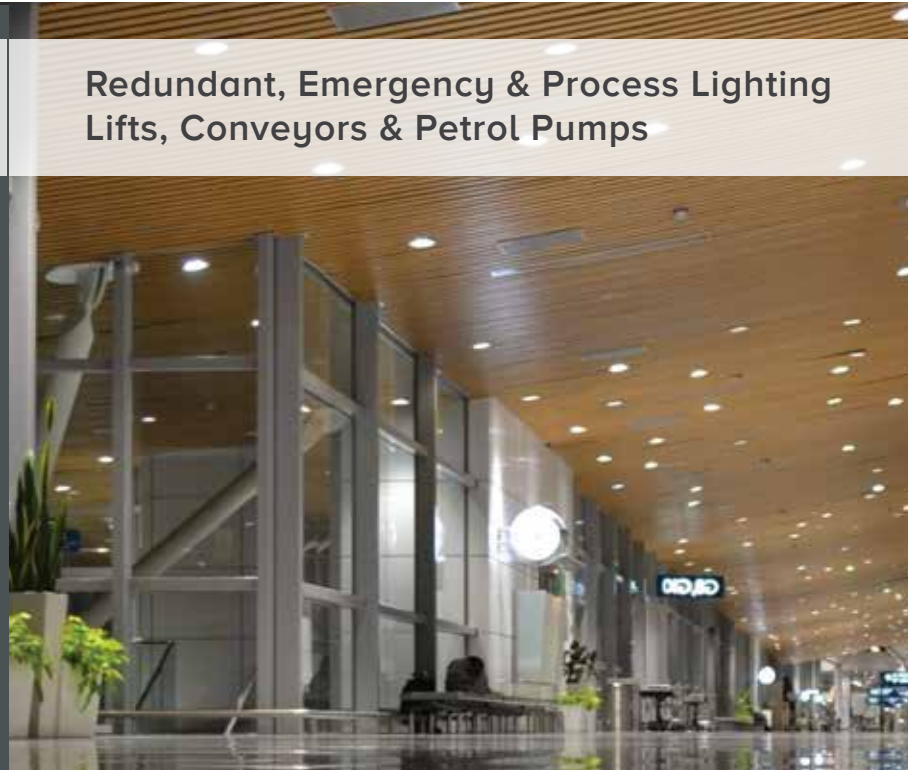
Centralised Active Shunt UPS

UPS / INVERTER for

**Redundant, Emergency & Process Lighting
Lifts, Conveyors & Petrol Pumps**

Indigenous Design
Industrial Grade,
Rugged Topology
For Harsh Environment.

National Award Winner
Most innovative power
solution of the year
2016-17 by Soft Disk



Mains synchronised zero-transfer time
for **Seamless** (Flicker-free, Jerk-free
without any variation in speed)

- Single conversion topology
(Saves approximately 35%-40% of electricity bills)
- DSP design using IGBT
- 400% load handling
- Smart 3 stage charger (longer battery life by 30%)

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.

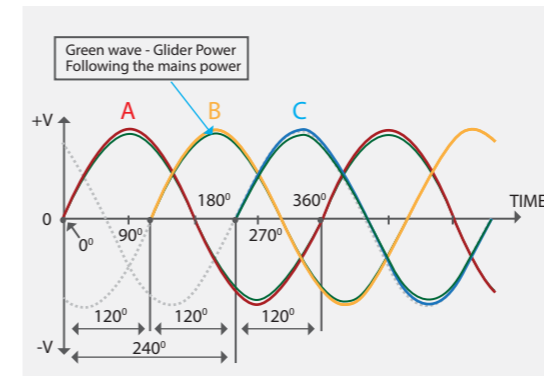
Saves approximately 35%-40% of electricity bills in comparison to Online UPS.

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.

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

Benefits of ASU-IL 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.



Industrial Grade design



Smart Hybrid Power Module in Active Shunt topology

DSP based Technology

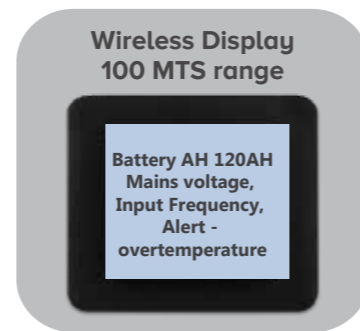
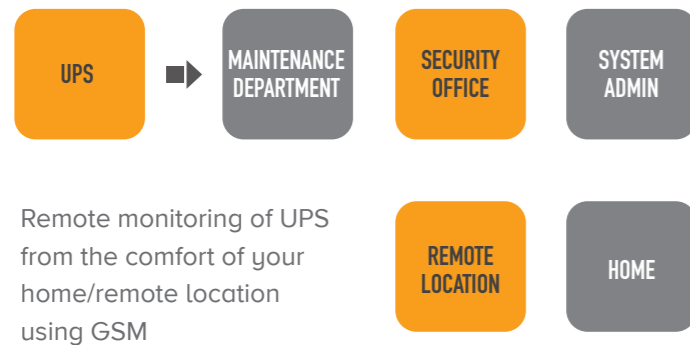
Manufactured in our

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

Applications

- Redundant, Emergency lighting
- OT lights
- Billing, POS
- Photocopiers, OHP
- LED lights, tubelights, fans
- Process lighting
- Security, surveillance
- Lifts, Conveyors
- Petrol Pumps etc

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

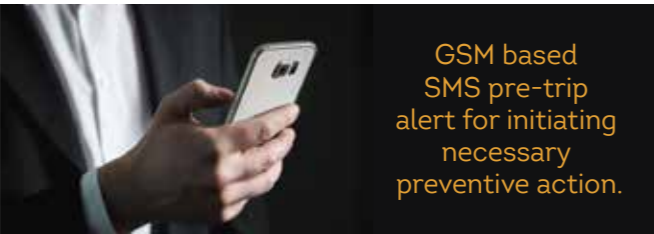


MODBUS, SNMP, GSM, RS485 Interface BMS Compatible

SNMP-Simple Network Monitoring Protocol

Monitoring	Diagnosis
 <p>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.</p>	 <p>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.</p>

GSM Interface

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

Active Shunt UPS

ASU-IL 5KVA-300KVA 1Φ & 3Φ

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

TECHNICAL SPECIFICATIONS

	ASU-IL 101	ASU-IL 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	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	4:1	
Unbalanced Load Phase Shift in 3Φ	120°± 0.5°	
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

Approved vendor for

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



PARTIAL LIST