

Delta UPS-Amplon Family

IN Series, Single Phase 1-3kVA

The Amplon IN series is a True Online Double-Conversion UPS in tower configuration with in-built Galvanic Isolation Transformer. Galvanic isolation is recommended for all critical IT application. Galvanic Isolation is also useful for installations at sites with poor power conditions with weak neutral.

The Amplon IN series with inbuilt galvanic isolation acts as a barrier to all raw mains power quality problems and provides clean uninterrupted supply to the critical load. Amplon IN series is designed for short as well as long backup time requirements with the addition of external batteries. An in-built high level charger shortens the recharging period and increase the availability.



Availability

- Double-conversion technology.
- In-built galvanic isolation transformer.
- Automatic input frequency.
- AC-start and battery-start capabilities.
- Comprehensive LC Display for monitoring of all UPS parameters and operating mode / status.
- Suitable for severe utility conditions (Commercial, Residential & Rural sites).
- High recharging capability increases availability.

Flexibility

- Suitable for short (in-built batteries) as well as long (external batteries) backup.
- Additional in-built battery charging capabilities upto 12A.
- Smart slot to support Mini SNMP /Mini ModBus /Mini Relay I/O interface for mission critical applications.
- In-built maintenance bypass switch for online maintenance in addition to static bypass (automatic).
- Option of Air filters for dusty environment.

Low Total Cost Of Ownership

- High input power factor (IPF> 0.97) and low iTHD saves on installation cost.
- Wide input voltage range and stable power supply extends battery life.
- High energy efficiency saves on operative cost and electricity bill.



Server



Network



Security



Medical



Education



BFSI

Series Comparison (1-3 kVA)			
IN series	1-3 kVA	Tower	With in-built galvanic isolation transformer
N series	1-3 kVA	Tower	Option of internal battery or additional charger
R series	1-3 kVA	Rack or Tower	Long backup with external battery and chargers
E series	1-3 kVA	Tower	Long backup with external battery and chargers



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1-3kVA

Specifications

Model/Rating*		1kVA / 800W	2kVA / 1600W	3kVA / 2400W
Input	Nominal Voltage	230 Vac (single phase)		
	Voltage Range	80 ~ 280 Vac (full load) **		
	Frequency	50 or 60 ± 5 Hz		
	Power Factor	≥ 0.97		
	Electrical Connection	Input terminal block		
Output	Voltage	230 Vac (single phase)		
	Voltage Regulation	± 1%		
	Frequency	50 or 60 ± 0.05 Hz		
	Transient Response	< 4% (10 ~ 90% linear load)		
	Voltage Harmonic	≤ 2% (linear load)		
	Overload Capability	125% for 3 minutes 150% for 30 seconds		
	Crest Factor	3:1		
	Waveform	Pure Sine Wave		
	Receptacle	India type 5A/5-pin x 2 nos. Output terminal block		
Isolation	Galvanic Isolation Transformer	Provided as standard in UPS at input/output (configured as per customer requirement)		
	Rated Voltage	36 Vdc	72 Vdc	
	Charger Capacity	Standard built-in: 4A (adjustable) Additional built-in: 1kVA ~ 4A, 2/3kVA ~ upto 8A External charger: In steps of 4A (as per backup requirement)		
	Electrical Connection	Battery Terminal Block		
Display	LED	Online, Bypass, On-battery, Overload, Battery low, Fault Replace battery, Battery level, Load level		
	LCD	Input / Output (Voltage, Frequency), Output load kVA / kW Battery voltage, Battery charge / discharge current		
Interface	Standard	RS232 x 1, Smart Slot x 1		
	Management Peripherals	Mini SNMP card, Mini ModBus card, Mini relay I/O control card, Mini USB card, Mini TVSS card		
Conformance	Safety	EN62040-1-1		
	EMC	CISPR ClassA		
Others	Battery-start	Yes		
	AC-start	Yes		
	External Battery Pack	Optional		
	Maintenance Bypass	Optional		
Overall	Efficiency (AC-AC)	> 85% (full load)		
	Temperature	0 ~ 45°C		
	Relative Humidity	0 ~ 95% (non-condensing)		
	Audible Noise (at one meter)	54 dBA		
	Dimensions (WxDxH)	225 x 425 x 400 mm	225 x 500 x 527 mm	
	Weight	25 kg	40 kg	45 kg

* Rated output at 25° C ** Lower range 80 ~ 176 Vac is acceptable under 50 ~ 100% loading condition. Customise variants can be offered against specific customer requirements. Product Development is continuous process and all specifications are subject to change without prior notice.



Friendly LED Display



1 kVA Rear View



2 and 3 kVA Rear View



2007~2008
Forbes Asia's
Fabulous 50



2009
Frost & Sullivan
Green Excellence
Award for Corporate
Leadership



ISO 9001:2008



OHSAS 18001:2007



ISO 14001:2004



Delta offers full-scale UPS solutions from
0.6 kVA to 4000 kVA to fulfill all your power security needs.