

Delta H Series UPS



High Availability UPS for ITES, BPO, ISP, Banks, Hospitals, Non-IT applications

Single/Three Phase Futuristic UPS System For SMEs & Corporates

15 KVA ~ 30 KVA

Delta H Series UPS is available in 15 KVA~30 KVA ratings with both single and three-phase output versions and 30 KVA with three phase output. This UPS is compatible with a wide range of battery autonomies. This product is ideal for all company sizes and requirements across wide range of critical & non-critical applications.

The true on-line intelligent double conversion (VFI) design of the H Series UPS enables it to act as a secure power infrastructure that guarantees the delivery of the highest power quality to your loads. The H Series UPS provides a multitude of features allowing it to meet the diverse requirements that any organization or facility may demand.

Features & Benefits:

- **Microprocessor Controlled**, High Frequency PWM Technology based "True Online" Double conversion (VFI) UPS System with IGBTs at Inverter stage, provide pure Sinewave output with high reliability and efficiency.
- **Input Power Factor Correction** up to unity reduces input current resulting in lower electricity bills and minimizes harmonics making it truly Generator compatible.
- **High AC to AC Efficiency** with load dependent fan speed technique results in lower running cost, quieter operation and lesser load on Air Conditioning making it a truly green UPS.
- **Widest Input Voltage Range** to operate on mains mode at voltages as low as 270V to provide conditioned supply during long brownout conditions. Batteries are used only when absolutely necessary, maximizing available backup time & extending battery life.
- **Lightning and Surge Protection** is superior to separate surge suppressors. Network-grade line conditioning provides full time EMI/RFI filtering preventing data errors caused by line noise.
- **Alarms & Indications** provide real time parameters on the LCD Display reducing resolution time by 70% in most cases.
- **Programmable Front Panel Interface** allows user to setup important functions like Output Parameters & Mode of Operation. It provides vital testing & diagnostic function to ensure maximum availability.
- **Smart Economy Mode** operation results in greater energy saving using energy optimizer for lesser critical applications & after business hours.
- **Dual Feed Input** allows installation of two independent power sources with option of Hot Standby configuration of UPS Systems to provide redundancy for mission critical applications.
- **Remote Emergency Power Off (REPO)** for remote shutdown in case of emergency.

Delta Energy Systems (India) Pvt. Ltd., DES India, is a 100% subsidiary of Delta Energy Systems AG; Switzerland, part of US \$ 3.8 Billion Delta Group. Delta is a leading world class provider of Power Management Solutions (World No.1 in switching power supplies), IT, Telecom, Consumer Electronics Components, LCD TV's, Projectors, Automobile Components, AC-DC drives for process industry, Networking and Wireless solution.

DES India is responsible for developing business in South Asian Region and is also recognized as the **Centre for technical Excellence** for South Asia. Delta offers custom designed Power Solutions. These solutions are designed for varied applications, foremost being the growing telecom applications. These state-of-the-art customized solutions are backed by a reliable and efficient service support. Delta India has impressive installation base with regional support centres all over India and SAARC region.

Delta achieved the number 1 position in merchant power supply sales worldwide for 2005 in OEM AC-DC Power Supply and Telecom Power categories*

* Micro-Tech Consultants



Delta H Series UPS: 15 KVA ~ 30 KVA

- **Extended battery** runtime scalable up to 24 hours for remote and unattended applications.
- **UPSentry® Network** shutdown software through intelligent RS-232 communication interface provides real time updates on electrical parameters, graceful unattended shutdown of multiple Servers and Workstations.
- **SNMP Management Capability (optional)** SNMP compatibility provides complete remote monitoring and control of the UPS. In the event of an extended power outage, it can command an unlimited number of systems to shut down sequentially. Enables you to monitor and control remote UPSs from a Web browser or industry standard Network Management System.

Typical Applications:

- Critical Servers & Storage
- LAN, WAN & Network devices
- Telecommunication units
- Small & Medium Data centers
- Media & Broadcasting equipments
- Voice over IP
- Bio Medical Test and diagnostic equipments
- Engineering network servers
- Process automation & control equipment

Delta UPS Range

- N: 1 KVA to 3 KVA
- J: 1 KVA to 3 KVA
- J: 7 KVA to 11 KVA
- NT: 20 KVA to 3200 KVA



Delta H Series UPS

High Availability UPS for ITES, BPO, ISP, Banks, Hospitals, Non-IT applications

Specifications & Performances

Model	H15K1	H15K3	H20K1	H20K3	H30K3
Capacity	15 KVA / 12 KW		20 KVA / 16 KW		30 KVA / 24 KW
Output	1 Phase	3 Phase	1 Phase	3 Phase	3 Phase
Input	Voltage 380/400/415 Volts AC (Selectable)				
	Voltage Range 270 - 485 Volts AC				
	Frequency 50 Hz / 60 Hz Auto Select				
	Frequency Range ± 3 Hz				
	Power Factor > 0.95				
Output	Voltage 3/3 380V / 400V / 415V (Selectable)				
	3/1 220V / 230V / 240V (Selectable)				
	Frequency 50 Hz / 60 Hz Auto Select				
	Voltage Regulation $\pm 2\%$				
	Frequency Accuracy ± 0.1 Hz (Free Running)				
	Wave Form Pure Sine Wave				
	Transient Response $\pm 5\%$ (10% - 90% Linear Load), Recovery within 10ms				
	THD < 3% (Linear Load), < 5% (Computer Load)				
	Overload Capacity $\leq 102\%$ continuous, 102~125% 1 Minutes, 125~150% 30 Seconds, >150% 2 sec				
	Crest Factor 3:1				
Efficiency 92% (Overall); 97% (Eco Mode)*					
Battery	Battery Voltage 240 Volts DC				
	Battery Type VRLA SMF, Tubular, Ni-Cd				
User Interface	LED Status Normal, Battery, Bypass, Fault with Mimic Diagram				
	LCD Intelligent LCD Display for Real time status monitoring & Fault indication				
	Audible Buzzer Alarm				
	Communication Standard RS232 port, Dry contacts & AS400				
	SNMP Internal (Optional)				
Environmental	Noise (At 1 Meter) <60 dBA				
	Operating Temperature 0 ~ 40 C				
	Ambient Temperature (Storage) -20 C ~ 60 C				
	Humidity 5 - 95% (Non Condensing)				
Operating Elevation 3300 Meters					
Safety Approval	EMC, Safety EN-50091-2 Class A, CE, CNS13438 Class A, EN50091-1-1				
	ESD, RF EM Fields IEC 1000-4-2 Level 4, EC 1000-4-3 Level 3,				
	Transients, Surges IEC 1000-4-4 Level 4, IEC 1000-4-5 Level 4,				
	Conduction Immunity IEC 1000-4-6				
Others	Cold Start Yes				
	Battery bank extension Possible				
	Dual input connection Provided for Hot Standby configuration				
	Bypass Automatic (Bi-directional) & Manual				
Physical	Dimension (WxDxH) 380x650x860				
	Weight 108 Kg				



Back Panel



LCD & Mimic Display



* Under ideal load & line conditions.

Specification subject to change without notice. Other trademarks are property of their respective owners.
Delta Series, Delta Logo are trademarks of Delta Energy Systems © 2006 Delta Energy Systems (India) Pvt. Ltd., India

Indian SAARC Office:
Delta Energy Systems (India) Private Limited
Plot No. 27, Sector - 34, EHTP, Gurgaon,
Haryana - 122001 INDIA
Tel: +91-124-4169040
Fax: +91-124-4036045

Mumbai:
Delta Energy Systems (India) Private Limited
Office no. 4 - 6, 1st Floor, Mahavir Center, Sector 17,
Vashi, Navi Mumbai - 400703
Mob : +91-98193-59009

Kolkatta:
Delta Energy Systems (India) Private Limited
"Citi Center" Unit D,
204, Block DC, Salt Lake City
Kolkatta - 700064
Tel: +91-33-55217306, 55217307

Bangalore:
Delta Energy Systems (India) Private Limited
No.2,100 Feet Ring Road,BTM Layout,IIInd stage,
Bangalore - 560076
Tel: +91-080-41202233
Fax: +91-080-41202235

Hyderabad:
Delta Energy Systems (India) Private Limited
G-12, Dhruvatar Apartments, 6-3-652,
Somaji Guda, Hyderabad - 500082
Tel: +91-40-55363258



E-mail: upsinfo@delta.co.th
Call us at: +91-98188-17771