

The power behind competitiveness

Delta UPS–Ultron Family

HPH Series, Three Phase

20 - 120 kW

Best-in-class power protection with maximum power and cost efficiency

The Ultron HPH is a true online double-conversion UPS offering the best-in-class combination of maximum available power, unbeatable energy efficiency and superior power performance for small data centers and other mission critical applications requiring highly reliable power protection. With fully rated power (kVA=kW), the Ultron HPH provides maximum available power without de-rating the UPS. Thanks to the three level IGBT topology for both PFC (power factor correction) and inverter, the Ultron HPH features up to 96% AC-AC efficiency and 99% efficiency in ECO mode. Delta's advanced digital PFC control also contributes low iTHD < 3% and high input power factor > 0.99 resulting in significant TCO (Total Cost of Ownership) savings. Facilitating increased availability through fail-safe design, the Ultron HPH is an ideal solution for protecting your mission critical operations.

Best-in-Class Power Performance and Efficiency

- Fully rated power (kVA=kW) for maximum power availability
- Leading AC-AC efficiency up to 96% saves energy costs
- Low harmonic pollution (iTHD<3%) and high input power factor (>0.99) reduce upstream investment costs

Assured Reliability

- Wide input voltage range allows the UPS to operate in harsh electrical environments and extends battery life
- DSP based technology enables reduction in the number of electronic components to lower failure rate
- Redundant auxiliary power and fan design* enhance system reliability
- Watch-dog design of dual auxiliary power circuit to eliminate single-point failure to ensure reliability

Greater Flexibility

- A wide choice of configurations, such as N+X redundancy and hot stand-by
- Front-door battery replacement with hot-swappable battery tray design supports easy and quick replacement without turning the unit off (HPH-B / BN)
- Adjustable charging current and charging voltage meet different battery configuration requirements
- Flexible battery configuration optimizes battery investment

Superior Serviceability and Management

- Swappable interior architecture and front access servicing enables quick and easy maintenance*
- Multi-connectivity interface supports remote UPS monitoring and management



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Model		HPH-20K	HPH-30K	HPH-40K	HPH-60K	HPH-80K	HPH-100K	HPH-120K
		HPH-20K-BN/B	HPH-30K-BN/B	HPH-40K-BN/B				
Power Rating		20KW	30KW	40KW	60KW	80KW	100KW	120KW
Input	Nominal Voltage	220/380 Vac; 230/400 Vac; 240/415 Vac						
	Voltage Range	- 40% ~ 20% (242 ~ 477/140 ~ 276 Vac) **				-20% ~ 20% (300 ~ 477 Vac) **		
	Frequency	50/60Hz +/- 10Hz						
	Power Factor	> 0.99 (full load)						
	Current Harmonic Distortion	< 3%						
Output	Voltage	220/380 Vac; 230/400 Vac; 240/415 Vac						
	Voltage Regulation	±1 %						
	Voltage Harmonic Distortion	< 1.5 % (linear load)				<2% (linear load)		
	Overload Capability	≤105 %: continuous; 106% ~ ≤125%: 10 minutes; 126% ~ ≤150%: 1 minute; >150%: 1 second						
	Frequency	50/60Hz +/- 0.05Hz						
Battery	Type	SMF/VRLA				Support VRLA/Tubular/Ni-Cd		
	Quantity	32-50 pcs				32-46 pcs		
	In-built Charge Current (Max.)	5A	9A	9A	10A	15A	20A	20A
	Typical Backup Time ***	15 min	10 min	9.5 min				
Communication Interfaces		SMART Slot x 1, MINI Slot x 1, Parallel Port x 2, RS232 Port x 1, REPO Port x 1, Charger Detection Port x 1, Input Dry Contact x 2, Output Dry Contact x 6, USB Port x 1*						
Conformance	Safety & EMC	CE, IEC62040-1, IEC602040-2						
	Parallel Redundancy	Yes, maximum 4 units in parallel up to 480 kW						
Other Features	Emergency Power Off	Yes (local and remote)						
	Maintenance Bypass Switch	Yes						
Efficiency	Online Mode	Up to 96%						
	ECO Mode	Up to 99%						
Environment	Operating Temperature	0 ~ 40 °C						
	Relative Humidity	5% ~ 95 % (no condensing)						
	Audible Noise	< 55 dBA	< 60 dBA		<65 dBA			
	Protection Level	IP21						
Physical	Dimensions (W x D x H)	380 x 800 x 800 mm				520 x 800 x 1175 mm		520 x 800 x 1760 mm
	Weight	66.5 Kg	86.2 Kg	86.5 Kg	186.5 Kg	192.5 Kg	312 Kg	312 Kg
Physical (BN / B)	Dimensions (W x D x H)	490 x 830 x 1400 mm						
	Weight (with batt.)	365 Kg	385 Kg					
	Weight (without batt.)	131 Kg	162 Kg					



High power performance
HPH series UPS



Control and LCD Display Panel



Swappable interior architecture
for quick and easy maintenance*



Redundant fan design
enhances system reliability*



Delta offers a full range of
UPS solutions from 600 VA to 4000 kVA
to fulfill your power security needs.

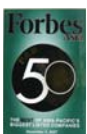
HPH-B: UPS integrated battery model has batteries inside
HPH-BN: UPS integrated battery model has no batteries inside

* Applied for models HPH-60/80/100/120K

** When input voltage is 242 ~ 324/140 ~ 187 Vac, the sustainable loading is from 70% to 100% of the UPS capacity.

*** At 70% load with internal battery strings.

All specifications are subject to change without prior notice.



2007~ 2008 Forbes Asia's
Fabulous 50



2009 Frost & Sullivan
Green Excellence Award for
Corporate Leadership



Delta's Manufacturing
System Certified by
ISO 9001 and ISO 14001
Standards



IECQ Certificate of
Hazardous Substance
Process Management



Applied for models
HPH-20/30/40K