

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. 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. 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 and power performance, 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

## Greater Flexibility

- A wide choice of configurations, such as N+X redundancy and hot stand-by
- Adjustable charging current and charging voltage meet different battery configuration requirements
- Flexible battery configuration optimizes battery investment

## Superior Serviceability and Management

- Front-door battery replacement with hot-swappable battery tray design supports easy and quick replacement without turning the unit off (HPH-B / BN)
- Swappable interior architecture and front access servicing enables quick and easy maintenance\*
- Multi-connectivity interface supports remote UPS monitoring and management



Datacenter



Telecom



Industrial



Network



Security



Banking



Lab



Medical



Metro



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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) **						
	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	Support SMF/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% (HPH 40-120K efficiency is tested by TÜV )						
	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			
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	191 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					

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.  
\*\*\*\* UPS needs de-rating for battery quantity 32-34 pcs

All specifications are subject to change without prior notice.



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.



2007~ 2008 Forbes Asia's  
Fabulous 50



2009 Frost & Sullivan  
Green Excellence Award for  
Corporate Leadership



ISO 9001:2008



ISO 18001:2007



ISO 14001:2004



TÜVRheinland®  
Precisely Right.

Delta Ultron HPH 40~120kVA  
Efficiency is tested by TÜV



Applied for models  
HPH-20/30/40K