

The power behind competitiveness

Delta UPS–Ultron Family

HPH Series, Three Phase

20 - 60 kVA/kW, 208/120V

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 94% 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 94% saves energy costs
- Low harmonic pollution (iTHD<3%) and high input power factor (>0.99) reduce upstream investment costs

Assured Reliability

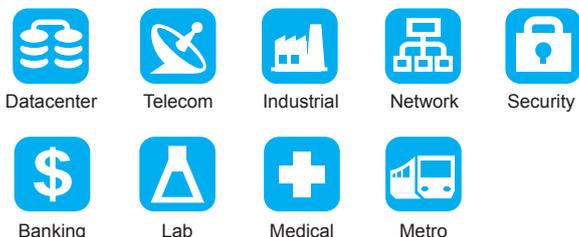
- Parallel expansion and N+X redundancy up to 4 units
- Redundant auxiliary power and fan design enhance system reliability
- Optional IPX1 level protection

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



Delta UPS–Ultron Family

HPH Series, Three Phase
20 - 60 kVA/kW, 208/120V

Model	HPH-20K-LV-B	HPH-30K-LV-B	HPH-40K-LV-B	HPH-60K-LV-B	
	HPH-20K-LV-BN	HPH-30K-LV-BN	HPH-40K-LV-BN	HPH-60K-LV-BN	
Power Rating	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW	
Input	Nominal Voltage	208/120Vac, 220/127Vac (3 phase, 4-wire + G)			
	Voltage Range	125~253Vac(L-L) / 72~146Vac(L-N)*			
	Frequency Range	40~70 Hz			
	Power Factor	> 0.99 (full load)			
	Current Harmonic Distortion	< 3%			
Output	Voltage	208/120Vac, 220/127Vac (3 phase, 4-wire + G)			
	Voltage Regulation	± 1%			
	Voltage Harmonic Distortion	< 3% (linear load)			
	Overload Capability	<105% continuous; 105%~125%: 10minute; 125~150%: 1minute; >150%: 0.5 second			
	Output Power Factor	1			
	Frequency	50/60 Hz ± 0.05 Hz			
Battery	Battery Quantity	Adjustable ± 11~13pcs (default 12 pcs)			
	Type	Support SMF and VRLA			
	Charge Current (Max.)	10A			
	Charge Voltage	Float charge 163 ± 3 Vdc ; Boost charge 168 ± 3 Vdc (default 12 pcs)			
	Backup Time**	9.5 min (9Ah*48pcs)	9.5 min (9Ah*72pcs)	6.5 min (9Ah*72pcs)	5.2 min (9Ah*96pcs)
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				
Display	LED indicators and Multi-language LCD display				
Conformance	Safety	UL, cUL, Energy Star			
Other Features	Parallel Redundancy	Up to 4 units			
	Emergency Power Off	Local and remote			
Efficiency	AC-AC Mode	Up to 94%			
	ECO Mode	Up to 98%			
Environment	Operating Temperature	0 ~ 40°C			
	Ambient Storage Temperature	-20 ~ 40°C			
	Relative Humidity	0% ~ 95% (non-condensing)			
	Audible Noise	< 65 dBA		< 70 dBA	
Physical	Dimensions (W x D x H)	520 x 800 x 1380 mm		520 x 800 x 1760 mm	
	Weight (with battery)	340 kg	420 kg	450 kg	530 kg
	Weight (without battery)	196 kg	204 kg	224 kg	242 kg

HPH-20K-LV-B: UPS integrated battery model has batteries inside
HPH-20K-LV-BN: UPS integrated battery model has no batteries inside

* When input voltage range is 72~108Vac(L-N) and 125~187Vac(L-L), the sustainable loading is from 63% to 100% of UPS capacity.
** At 70% load with internal battery strings.

All specifications are subject to change without prior notice.



Control and LCD Display Panel



Swappable interior architecture for quick and easy maintenance



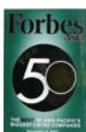
Redundant fan design enhances system reliability



Inbuilt battery with front access and hot-swappable design



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



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



IECQ Certificate of Hazardous Substance Process Management

