

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