

The power behind competitiveness

Delta UPS – Ultron Family

HPH Series, Three Phase
160 - 200 kVA

Highly reliable and efficient backup power for medium enterprise operations

The brand-new Ultron HPH series 160-200kVA is a true online double-conversion UPS offering the best-in-class combination of power performance and efficiency for medium data centers, pan-IT, and other mission critical applications. Thanks to Delta's R&D expertise and excellent engineering capabilities, the Ultron HPH features up to 96.5% AC-AC efficiency, low iTHD < 3%, and high input power factor > 0.99 resulting in significant total cost of ownership (TCO) savings. Highlights of the highly reliable Ultron HPH series UPS design include key component redundancy and proactive battery health detection. With its combination of superior availability and power performance, the Ultron HPH 160-200kVA is the top choice for power protection of sustainable medium business operations.

Best-in-class Power Performance and Efficiency

- High AC-AC efficiency of up to 96.5% and ECO mode to 99% for significant energy cost savings
- Low harmonic pollution (iTHD < 3%) and high input power factor (> 0.99) reduces upstream investment costs

Assured Availability

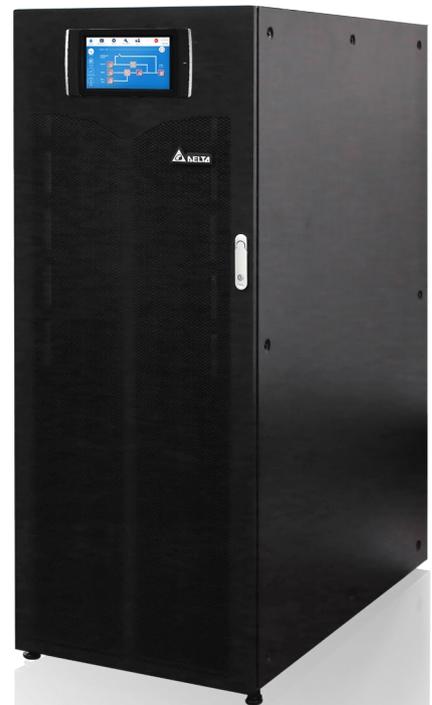
- Optional redundant controller supports dual CAN bus and ring connection for high system availability
- Proactive battery aging detection for high reliability
- Easy event log check via touch panel and firmware upgrade via USB port

Greater Flexibility

- Parallel expansion and redundancy up to 8 units, 1.6MVA of total power capacity
- Flexible battery configuration 30~46 pieces optimizes battery investment
- Supports either top or bottom cable entry in the single cabinet. The unique fixed symmetric terminal design avoids cable bending issues to enhance cable reliability

Superior Manageability

- User-friendly 10" colored LCD with touch panel enables easy local UPS management
- Environment information such as security, water, fire and temperature can be integrated into the UPS for easy monitoring via the LCD of the UPS
- If the UPS is equipped with Delta's battery management system, the battery information can be integrated into the UPS and monitored via LCD



Datacenter



Telecom



Industrial



Network



Banking



Security



Lab



Medical



Metro



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160 - 200 kVA

Technical Specification

Model		HPH-160K	HPH-200K
Power Rating		160kVA* / 150kW	200kVA / 200kW
Input	Nominal Voltage	220/380 Vac, 230/400 Vac, 240/415 Vac (3-phase, 4-wire + G)	
	Voltage Range	176 ~ 276Vac (full load)	
	Current Harmonic Distortion	≤ 3% **	
	Frequency	40 ~ 70 Hz	
Output	Voltage	220/380 Vac, 230/400 Vac, 240/415 Vac (3-phase, 4-wire + G)	
	Voltage Harmonic Distortion	≤ 0.5% (linear load)	
	Frequency	50/60 Hz	
	Frequency Regulation	±0.05 Hz (battery mode)	
	Overload Capability	≤ 125% : 10 minutes ; ≤ 150% : 1 minute	
Display	10" color touch screen		
Interface	Standard	RS232 x 1, Parallel port x 2, USB x 3, RS485 x 1, Relay I/O card slot x 1, REPO x 1, Input dry contact x 4, Output dry contact x 6, Battery temperature sensor x 4, External switch detection x 4, RJ45 x 1, Ethernet x 1	
	Optional	Relay I/O card, Battery cabinet temperature sensor cable	
Conformance	Safety	CE, RCM	
Efficiency	AC-AC Mode	Up to 96.5%	
	ECO Mode	99%	
Battery	Nominal Voltage	±240 Vdc	
	Charge Voltage	±272 Vdc (adjustable from 204V to 312V)	
	Battery number configuration	30 ~ 46pcs (default: 40pcs)	
Environment	Operating Altitude	1000 meters (without derating)	
	Operating Temperature	0 ~ 40°C	
	Audible Noise	<70 dB	
	Relative Humidity	0 ~ 95% (non-condensing)	
Others	Parallel Redundancy and Expansion	Maximum 8 units	
	Remote Emergency Power Off	Yes	
	Battery Start	Yes	
Physical	Dimensions (W x D x H)	600 x 1100 x 1600 mm	
	Weight	339 kg	376 kg

* The power rating is adjustable from default 160kVA to 150kVA via touch panel.

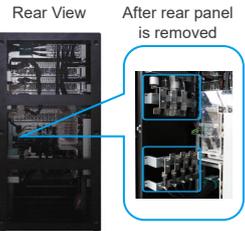
** When input vTHD is less than 1%



User-friendly 10" color touch screen



Highly integrated with four built-in switches



Fixed symmetric terminal avoids cable bending issues for high cable 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



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



IECQ Certificate of Hazardous Substance Process Management

