

# Delta UPS - Ultron Family

HPH Gen2 Series, Three Phase, 20-40 kVA

## Combines reliable protection, cost-effective power, compact footprint and high-level performance

The latest HPH Gen2 20-40 kVA UPS offers a best in class footprint and high-level performance. With advanced technology and thermal management, it achieves the world's leading power density and promises 40°C without de-rating. The 0.99 input PF and iTHD < 2% ensure maximum upstream source compatibility. Low total cost of ownership is achieved by > 96% efficiency, energy recycle mode, wider battery quantity configuration and inbuilt 15 A charger. In addition, it provides a user-friendly interface touch panel, manual protection devices and caster wheels for easy deployment, installation and operation. All these features provide the ideal solution for various small and medium-sized data centers and critical power backups.

## Easy Deployment and Maintenance with Compact Design

- Inbuilt casters for easy move-in, positioning and maintenance
- Inbuilt input / bypass input / output / maintenance bypass breakers for completed distribution panel
- Slim design and smallest footprint (40 kW in 0.15 m<sup>2</sup>) to reduce wasted space

## Low Total Cost of Ownership

- Wide battery quantity configuration (30-46 pcs) optimizes the battery solution
- High AC-AC efficiency over 96% and ECO mode to 99% provides in marked energy cost savings
- Low input harmonic distortion (iTHD < 2%) is highly compatible with upstream of UPS power without additional filter or over sizing generator

## High Manageability and Flexibility

- User-friendly 5" color touch screen enables easy local UPS management
- Optional SNMP IPv6 and Modbus communication cards for remote monitoring
- Inbuilt 15 A charger for long backup solution without additional cost
- Optional IP42 kit for harsh environment applications
- Front access and easy battery replacement for inbuilt battery models

## Options

- Battery temperature compensation cable
- Dust filter
- IP42 kit for long backup model
- EPO button kit
- SNMP IPv6 card
- Modbus card
- Relay I/O card



Data Center



Telecom



Industrial



Network



Banking



Security



Lab



Medical



Metro



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## Technical Specifications

Model		HPH-20K HPH-20KB/HPH-20KB-N <sup>(1)</sup>	HPH-30K HPH-30KB/HPH-30KB-N <sup>(1)</sup>	HPH-40K HPH-40KB/HPH-40KB-N <sup>(1)</sup>
Power Rating	kVA / kW	20	30	40
Input	Nominal Voltage	220/380 Vac, 230/400 Vac, 240/415 Vac (3P\$W + PE)		
	Voltage Range	305-478 Vac (full load); 228-305 Vac (with derating to 70-100%)		
	Current Harmonic Distortion <sup>(2)</sup>	≤ 2.5%	≤ 2%	
	Power Factor	> 0.99		
	Frequency Range	40-70 Hz		
Output	Voltage	220/380 Vac, 230/400 Vac, 240/415 Vac (3P4W + PE)		
	Voltage Harmonic Distortion	≤ 1.5% (linear load); ≤ 4% (non-linear load)		
	Voltage Regulation	± 1% (static)		
	Frequency	50/60 Hz		
	Overload Capability	≤ 105%: continues; > 105-≤ 110%: 60 mins; > 110-≤ 125%: 10 mins; > 125-≤ 150%: 1 min; > 150%: 1 sec		
Display		5" color touch screen		
Communication Interfaces	Standard	External battery temperature detection x1, Output dry contact x4, Input dry contact x2, Parallel port x2, USB Port x1, RS232 Port x1, REPO Port x1, Mini Slot x2		
Conformance	Safety	CE, RCM (IEC62040-1, IEC62040-2 Class C2)		
Efficiency	AC-AC	> 96% (Peak efficiency)		
	ECO Mode	99%		
Battery	Nominal Voltage	±240 Vdc (default, ±180 Vdc <sup>(3)</sup> -±276 Vdc configurable)		
	Charge Voltage	±272 Vdc (adjustable from 204 V to 312 V)		
	Maximum Inbuilt Charger Current	15 A		
	Discharge Time <sup>(4)</sup>	20 mins	14 mins	9.5 mins
Environment	Operating Temperature	0 to 40 °C		
	Relative Humidity	0-95% (non-condensing)		
	Audible Noise (at one meter)	< 50 dBA	< 56 dBA	
	IP Protection	IP20 (Standard); IP42 (Optional for long backup model)		
Others	Parallel Redundancy and Expansion	Up to 4 units		
	Battery Start	Yes		
Physical	Dimensions (W x D x H)	240 x 630 x 650 mm		
	Weight	44 kg	50 kg	
Physical (HPH-B/B-N)	Dimensions (W x D x H)	410 x 780 x 1200 mm		
	Weight (B: with batt.)	334 kg	340 kg	
	Weight (B-N: without batt.)	94 kg	100 kg	

(1) HPH-B: UPS integrated battery model has batteries inside; HPH-B-N: UPS integrated battery model has no batteries inside

(2) When input harmonic distortion is less than 1%

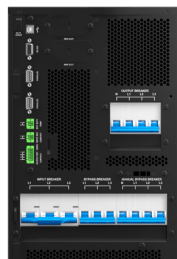
(3) 30-34 pcs required load derating

(4) UPS at 70% load with internal battery strings

All specifications are subject to change without prior notice.



User Friendly 5" Touch Panel



Inbuilt breakers for easy installation



Optional IP42 solution



Inbuilt battery models with swappable battery trays design