

The power behind competitiveness

# Delta UPS – Ultron Family

HPH Gen.2 Series,  
Three Phase 20 - 40 kVA

**The combination of reliable protection, cost-effective power with compact footprint and high-level performance.**

The latest HPH Gen.2 20-40kVA offers a compact footprint with full rate output PF at 40 degree to optimize the UPS sizing. Ensure the 0.99 input PF and iTHD<2% for maximum upstream source compatibility. Low total cost of ownership is achieved by >96% efficiency, energy recycle mode, wider battery Q'ty configuration and inbuilt 15A charger. In addition, it provides a user interface friendly touch panel, manual protection devices and caster wheels for easy deployment, installation and operation. All these features to ensure 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 (40kW in 0.15m<sup>2</sup>) to reduce the space wasting

## Low Total Cost of Ownership

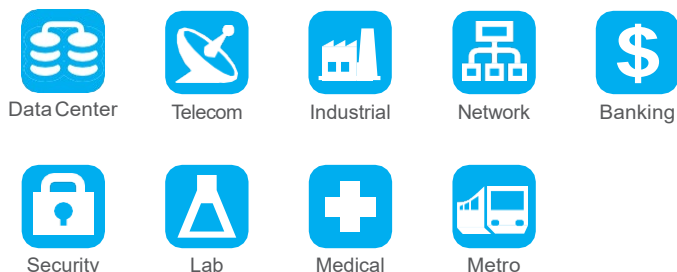
- Wide battery Q'ty configuration (30-46pcs) to optimize the battery solution
- High AC-AC efficiency over 96% and ECO mode to 99% resulting in marked energy cost savings
- Low input harmonic distortion (iTHD<2%) which is highly compatible with upstream of UPS power without additional filter or over 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 15A charger for long backup solution without additional cost
- Optional IP42 kit for harsh environment application

## Options

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



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## Technical Specification

Model		HPH-20K	HPH-30K	HPH-40K
Power Rating	kVA	20	30	40
	kW	20	30	40
Input	Nominal Voltage	220/380V, 230/400V, 240/415V (3-phase, 4-wire +G)		
	Voltage Range	305~478 Vac (full load); 228~478 Vac (70% load)		
	Current Harmonic Distortion	≤ 2% *		
	Power Factor	> 0.99		
	Frequency Range	40~70 Hz		
Output	Voltage	220/380V, 230/400V, 240/415V (3-phase, 4-wire +G)		
	Voltage Harmonic Distortion	≤ 1.5% (linear load); ≤ 4% (non-linear load)		
	Voltage Regulation	±1% (static)		
	Frequency	50/60 Hz		
	Overload Capability	≤ 105%: continuously; > 105 ~ ≤ 110%: 60min; > 110% ~ ≤ 125%: 10 minute; > 125% ~ ≤ 150%: 1 minute; > 150%: 1 second		
Display		5" color touch screen		
Interface	Standard	External battery temperature dry contact 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 Mode	> 96% (Peak efficiency)		
	ECO Mode	99%		
Battery	Nominal Voltage	±240Vdc (default, ±180Vdc~±276Vdc configurable)		
	Charge Voltage	±272Vdc (adjustable from 204V to 312V)		
	Maximum Inbuilt Charger Current	15A		
Environment	Operating Temperature	0 ~ 40°C		
	Relative Humidity	0~95% (non-condensing)		
	Audible Noise (at one meter)	< 60 dB		
	IP Protection	IP20 (Standard); IP42 (Optional)		
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	44kg	50kg	50kg

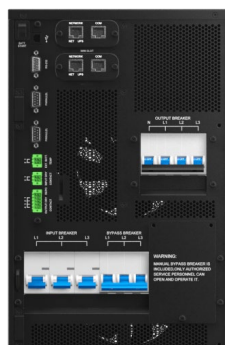
\* When input voltage total harmonic distortion input is less than 1%

\*\* De-rating 20% load for 30-32pcs battery Q'ty configuration

All specifications are subject to change without prior notice.



User Friendly 5" Touch Panel



Inbuilt breakers for easy installation



Optional IP42 solution