

NH Plus series

Three phase 20-120kVA

Uninterruptible Power Supply

The NH Plus series is Delta's next generation UPS featuring high efficiency, a hot-swappable modular structure and N+X redundancy. With its industry leading 94% high efficiency, the NH Plus series delivers remarkably low total cost of ownership in terms of both capital expense and operation expense.

With N+X module and system redundancy to guarantee reliability and availability, the NH Plus series sets a new milestone for UPS protection in mission critical applications.



Availability

- Available from 20 to 480kVA (4 units x 120kVA in parallel).
- Redundancy at module and system level.
- Hot-swappable function ensures uninterrupted operations during maintenance.
- Redundant auxiliary power and control circuit ensures higher reliability.
- Built-in maintenance and static bypass switch.

Flexibility

- Modular design provides easy maintenance and scalability.
- Multi-language LCD display.
- Two smart slots and six programmable dry contact outputs.
- Optional extended battery cabinet for longer backup time.

Lowest Total Cost Of Ownership

- High input power factor ($pf > 0.99$) and low harmonic distortion (ITHD $< 3\%$). Savings in installation costs.
- Energy savings with maximum 94% high efficiency for lower operation costs.
- Compatible with generator installation.



Data Center



Telecom



Industry



Network



Security



Labs



Medical



Metro



Scalable And Hot-swappable

NH Plus series

Three phase 20-120kVA

Technical Specifications

| Model | | NHP20 | NHP40 | NHP60 | NHP80 | NHP100 | NHP120 | |
|--------------------|-----------------------------------|---|---------------------------|-------|-------|--------|---------------------------|----|
| Power Rating – kVA | | 20 | 40 | 60 | 80 | 100 | 120 | |
| Power Rating - kW | | 16 | 32 | 48 | 64 | 80 | 96 | |
| Input | Rating Voltage | V 380/220 , 400/230 , 415/240 (3 phase, 4-wire plus ground) | | | | | | |
| | Voltage Range | V 208~477(line-line) / 120~276 (line-neutral) * | | | | | | |
| | Input Current Harmonic | % < 3 (full load) | | | | | | |
| | Power Factor | > 0.99 | | | | | | |
| | Frequency | Hz 50 or 60 ± 5 | | | | | | |
| Output | Voltage | V 380/220 , 400/230 , 415/240 (3 phase, 4 wire plus ground) | | | | | | |
| | Voltage Harmonic | % < 3 (linear load) | | | | | | |
| | Voltage Regulation | % ± 1 (static) | | | | | | |
| | Frequency | Hz 50 or 60 | | | | | | |
| | Frequency Regulation | Hz ± 0.05 (interior oscillator) ± 5 (synchronized, adjustable in steps of 0.1Hz) | | | | | | |
| | Overload | ≤125% : 10minutes ; ≤150% : 1minute | | | | | | |
| Display | LED | UPS status : Normal, Bypass, Backup, Fault | | | | | | |
| | LCD | Input/Output, Bypass, Inverter, Frequency, Loading and battery voltage, Current, UPS abnormal message and intelligent self diagnosis | | | | | | |
| Interface | Standard | RS232 x 1, Smart Slot x 2, Dry contact output x 6, Contact input x 2, Parallel port x 1, Battery cabinet temperature x 4 | | | | | | |
| | Optional Accessories | SNMP card, Modbus card, Relay I/O control card, EnviroProbe, SNMP+ 5 ports hub, Battery cabinet temperature sensor, Battery cabinet temperature kit (For Delta battery cabinet), Battery cabinet status cable | | | | | | |
| Conformance | Safety & EMC | CE, EN62040-1-1, EN62040-2(Class A) | | | | | | |
| Others | Parallel Redundancy And Expansion | Module and system redundancy; Maximum 4 cabinets in parallel up to 480kVA | | | | | | |
| | Emergency Power Off | Local and remote | | | | | | |
| | SRAM Event Log | 500 Records | | | | | | |
| | Battery-Start & AC-start | Yes | | | | | | |
| Overall | Efficiency | Normal | % 94 | | | | | |
| | | ECO | % 97 | | | | | |
| | Temperature | °C 0 ~ 40 | | | | | | |
| | Relative Humidity | % 90 (non-condensing) | | | | | | |
| | Noise (at one meter) | dBA | 65 | 68 | 70 | 70 | 72 | 73 |
| | Dimensions (WxDxH) | UPS | mm 520x910x1165 | | | | 520x975x1695 | |
| | | EBC** | 520x850x1165 (26Ahx40pcs) | | | | 520x975x1695 (40Ahx40pcs) | |
| Weight | kg | 170 | 200 | 230 | 260 | 320 | 350 | |

* Lower range 208~300 / 120~173Vac is acceptable under 70~100% loading conditions.

** EBC: External battery cabinet.

All specifications are subject to change without prior notice.



Mimic LCD Display



20-80kVA + Battery Cabinet



100-120kVA + Battery Cabinet



Delta offers full-scale UPS solutions from 0.6kVA to 4000kVA to fulfill all your power security needs.