

# 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 94% high efficiency even at 30% loads 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% : 10m inutes ; ≤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						
Confor- mance	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.