

The power behind competitiveness

# Delta UPS–Modulon Family

NH Plus Series, Three Phase

20-120 kVA

## Power to build a lasting competitive advantage

The Modulon NH Plus series is Delta's next generation UPS featuring high efficiency, 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 operating expense. With N+X module and system redundancy to guarantee reliability and availability, the Modulon NH Plus series sets a new milestone for UPS protection in mission critical applications.

### Availability

- Available from 20 to 480 kVA (4 units x 120 kVA 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.
- Inbuilt maintenance and static bypass switch.

### Flexibility

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

### Low Total Cost Of Ownership

- Low harmonic distortion (iTHD<3%) optimized generator size to save initial investment
- High input and output power factor (I/P pf >0.99; O/P pf up to 0.9) and 94% high efficiency reduce operating costs



Data Center



Telecom



Industrial



Network



Security



Lab



Medical



Metro

 **DELTA**  
Smarter. Greener. Together.

# Delta UPS–Modulon Family

NH Plus Series, Three Phase  
20 - 120 kVA

Technical Specifications							
Model		NHP-20K	NHP-40K	NHP-60K	NHP-80K	NHP-100K	NHP-120K
Power Rating - kVA		20	40	60	80	100	120
Power Rating - kW*		18	36	54	72	90	108
Input	Nominal Voltage	380/220, 400/230, 415/240 Vac (3 phase, 4-wire + G)					
	Voltage Range	208 ~ 477 Vac (line-line)/120 ~ 276 Vac (line-neutral) **					
	Current Harmonic Distortion	< 3%*** (full load)					
	Power Factor	> 0.99					
	Frequency	50 or 60 ± 5 Hz					
Output	Voltage	380/220, 400/230, 415/240 Vac (3 phase, 4-wire + G)					
	Voltage Harmonic Distortion	≤ 3% (linear load)					
	Voltage Regulation	± 1% (static)					
	Frequency	50 or 60 Hz					
	Frequency Regulation	± 0.05 Hz (interior oscillator) ± 5 Hz (synchronized, adjustable in steps of 0.1 Hz)					
	Overload Capability	≤ 125%: 10 minutes; ≤ 150%: 1 minute					
Interface	Standard	RS232 x 1, SNMP slot x 2, Dry contact output x 6, Dry contact input x 2, Battery cabinet temperature x 4, Battery cabinet status detection x 1, Parallel port x 1, REPO x 1					
	Management Peripherals	SNMP card, Modbus card, Relay I/O control card, EnviroProbe, SNMP + 5 ports hub, Battery cabinet temperature sensor, Battery cabinet status cable					
Conformance	Safety & EMC	CE, EN62040-1, EN62040-2 Class A					
Other Features	Parallel Redundancy and Expansion	Module and system redundancy; Maximum 4 units in parallel up to 480 kVA					
	Emergency Power Off	Local and remote					
	SRAM Event Log	500 records					
Efficiency	AC-AC	94%					
	ECO Mode	97%					
Environment	Operating Temperature	0 ~ 40°C					
	Relative Humidity	0 ~ 95% (non-condensing)					
	Audible Noise (at one meter)	< 64 dBA	< 64 dBA	< 64 dBA	< 64 dBA	< 67 dBA	< 67 dBA
Physical	Dimensions (WxDxH)						
	UPS	520 x 910 x 1165 mm				520 x 975 x 1695 mm	
	Battery Cabinet	520 x 910 x 1165 mm (26 Ah x 40 pcs)				520 x 975 x 1695 mm (40 Ah x 40 pcs)	
	Weight	169 kg	199 kg	229 kg	259 kg	349 kg	379 kg



Mimic LCD Display



Scalable and Hot-swappable



100-120 kVA + Battery Cabinet



Delta offers full range UPS solutions from 600 VA to 4000 kVA to fulfill your power security needs.

\* Operating temperature is under 25°C and reconfiguration of the UPS is required; Delta provides the configuration service.

\*\* When input voltage is 208~300/120~173 Vac, the sustainable loading is from 70% to 100% of the UPS capacity.

\*\*\* For source THDv <2% and nominal load.

All specifications are subject to change without prior notice.



2007~ 2008 Forbes Asia's Fabulous 50



2009 Frost & Sullivan Green Excellence Award for Corporate Leadership



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



IECQ Certificate of Hazardous Substance Process Management

