

The power behind competitiveness

# Delta Modulon NH Plus Series

Three Phase 20-120 kVA

Uninterruptible Power Supply

## *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**

- High input power factor ( $pf > 0.99$ ) and low harmonic distortion ( $iTHD < 3\%$ ) save installation costs.
- Maximum 94% high efficiency saves energy and operation cost.
- Optimum generator sizing saves initial investment.



Data Center



Telecom



Industrial



Network



Security



Lab



Medical



Metro



# Delta Modulon NH Plus Series

Three Phase 20-120 kVA

Uninterruptible Power Supply

Technical Specifications		NHP 20	NHP 40	NHP 60	NHP 80	NHP 100	NHP 120
<b>Model</b>		NHP 20	NHP 40	NHP 60	NHP 80	NHP 100	NHP 120
<b>Power Rating - kVA</b>		20	40	60	80	100	120
<b>Power Rating - kW</b>		16	32	48	64	80	96
<b>Input</b>	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					
<b>Output</b>	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					
<b>Interface</b>	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					
<b>Conformance</b>	Safety & EMC	CE, EN62040-1-1, EN62040-2 Class A					
<b>Other Features</b>	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					
<b>Efficiency</b>	AC-AC	94%					
	ECO Mode	97%					
<b>Environment</b>	Operating Temperature	0 ~ 40°C					
	Relative Humidity	0 ~ 90% (non-condensing)					
	Audible Noise (at one meter)	65 dBA	68 dBA	70 dBA	70 dBA	72 dBA	73 dBA
<b>Physical</b>	Dimensions UPS	520 x 910 x 1165 mm				520 x 975 x 1695 mm	
	(WxDxH) Battery Cabinet	520 x 850 x 1165 mm (26 Ah x 40 pcs)				520 x 975 x 1695 mm (40 Ah x 40 pcs)	
	Weight	170 kg	200 kg	230 kg	260 kg	320 kg	350 kg



Mimic LCD Display



Scalable and Hot-swappable

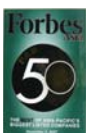


100-120 kVA + Battery Cabinet



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

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

