

The power behind competitiveness

# Delta UPS – Modulon Family

NH Series, Three Phase Modular  
20 - 60 kVA

The Modulon NH series is a true on-line, double-conversion, three phase UPS featuring high efficiency, a modular structure and N+X redundancy. With its industry leading 94% high efficiency, the NH 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 NH series sets a new milestone for power protection in mission critical applications.

## Availability

- Available from 20 to 120 kVA (60kVA x 2 units in parallel).
- Redundancy at module and system level.
- Redundant auxiliary power and control circuit ensures higher reliability.
- Advanced battery management optimizes battery performance and lifetime.
- Easy power module replacement reduces MTTR (Mean Time To Repair).
- Inbuilt maintenance and static bypass switch.

## Flexibility

- Modular design provides high scalability for increasing power requirement.
- Multi-language mimic 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 ( $iTHD < 5\%$ ) savings in installation costs.
- Maximum 94% high efficiency saving energy and operating cost.
- Optimum generator sizing and saving initial investment.



Data Center



Telecom



Industrial



Network



Security



Lab



Medical



Metro



QUITO: Elia Liut N45-26 y Edmundo Chiriboga Telf: 02 3936 400 CELULAR: 09 9610 8549  
GUAYAQUIL: Vernaza Norte Mz. 13 Solar 22 Telf: 04 2596 400 CELULAR: 09 8929 9999  
CUENCA: Luis Moscoso s/n y Manuel Ignacio Ochoa Telf: 07 2854 045 CELULAR: 09 9570 0700

# Delta UPS – Modulon Family

## NH Series, Three Phase Modular 20 - 60 kVA

Technical Specifications					
Model		NH-20K**	NH-40K	NH-60K	
Power Rating - kVA		20	40	60	
Power Rating - kW		16	32	48	
Input	Nominal Voltage	208/120 Vac (3 phase, 4-wire + G)			
	Voltage Range	156 ~ 249 Vac (line-line) / 90 ~ 144 Vac (line-neutral) *			
	Current Harmonic Distortion	< 5% (full load)			
	Power Factor	> 0.99			
	Frequency	50 or 60 ± 5 Hz			
Output	Voltage	208/120 Vac (3phase, 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 hub, Battery cabinet temperature sensor, Battery cabinet status cable			
Conformance	Safety & EMC	EN62040-1, EN62040-2 Class A			
Other Features	Parallel Redundancy and Expansion	Module and system redundancy; Maximum 2 units in parallel up to 120 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 ~ 90% (non-condensing)			
	Audible Noise (at one meter)	68 dBA	70 dBA	70 dBA	
Physical	Dimensions (W x D x H)	UPS	520 x 855 x 1696 mm	520 x 855 x 1696 mm	520 x 975 x 1696 mm
		Battery Cabinet	NHB26: 520 x 855 x 1165 mm	NHB40: 520 x 855 x 1696 mm	
	Weight	UPS	>400 kg	>450 kg	>580 kg

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

\*\* Cabinet of 40kva.

All specifications are subject to change without prior notice.



Control and LCD Display Panel



Smart Slots and Interface



Up to 3 Modules in One Cabinet



2 Units x 60 kVA in Parallel



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



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

