

The power behind competitiveness

Delta UPS – Modulon Family

NH Series, Three Phase Modular 20 - 80 kVA

The Modulon NH series is a 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

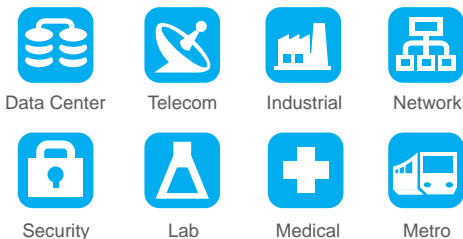
- Available from 20 to 320 kVA (80kVA x 4 units in parallel).
- Redundancy at module and system level.
- Redundant auxiliary power and control circuit ensures higher reliability.
- Advanced battery management optimizes battery performance and lifetime.
- Easy power module replacement reduces MTTR (Mean 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 < 3%) savings in installation costs.
- Maximum 94% high efficiency saving energy and operating cost.
- Optimum generator sizing and saving initial investment.



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Technical Specifications					
Model		NH-20K	NH-40K	NH-60K	NH-80K
Power Rating - kVA		20	40	60	80
Power Rating - kW		16	32	48	64
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 (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	CE, EN62040-1, EN62040-2 Class A			
Other Features	Parallel Redundancy and Expansion	Module and system redundancy; Maximum 4 units in parallel up to 320 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)	65 dBA	68 dBA	70 dBA	70 dBA
Physical	Dimensions (W x D x H)	UPS	520 x 855 x 1165 mm		
		Battery Cabinet	520 x 855 x 1165 mm		
	Weight	UPS	125 kg	175 kg	210 kg

* Lower range 208 ~ 300 / 120 ~ 173 Vac is acceptable under 70 ~ 100% loading condition.
All specifications are subject to change without prior notice.



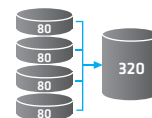
Control and LCD Display Panel



Smart Slots and Interface



Up to 4 Modules in One Cabinet



4 Units x 80 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

