

The power behind competitiveness

# Delta UPS–Ultron Family

DPS Series, Three Phase

From 160 to 500kVA, scalable up to 4000kVA in parallel

## Leading in power performance and efficiency

Delta's Ultron DPS is a double-conversion and IGBT-rectifier three phase UPS. With the three level IGBT topology for both PFC (power factor correction) and inverter, the Ultron DPS features industry leading performance of up to 96% AC-AC efficiency. Thanks to Delta's advanced digital PFC control, it also has low iTHD < 3% and high input power factor > 0.99 resulting in significant total cost of ownership (TCO) savings. Aiming to achieve the highest availability possible, Delta has enhanced special designs for battery management, swappable fans and ease of maintenance.

The excellent power performance and high system availability of the Ultron DPS provide customers with the benefits of a stable power supply, high power efficiency, low capital investment and low overall operation cost.

### Reliability

- N+X redundancy or hot-standby configuration increases system reliability
- Wide input voltage range allows the UPS to work in harsh electrical environments
- Field programmable sequential start-up
- Intelligent fan speed control and redundant fan design prevent overheating
- Comprehensive battery management sustains battery lifetime and optimal operation

### Low Total Cost Of Ownership

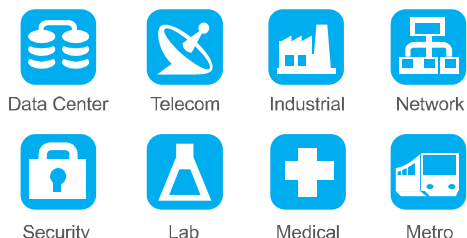
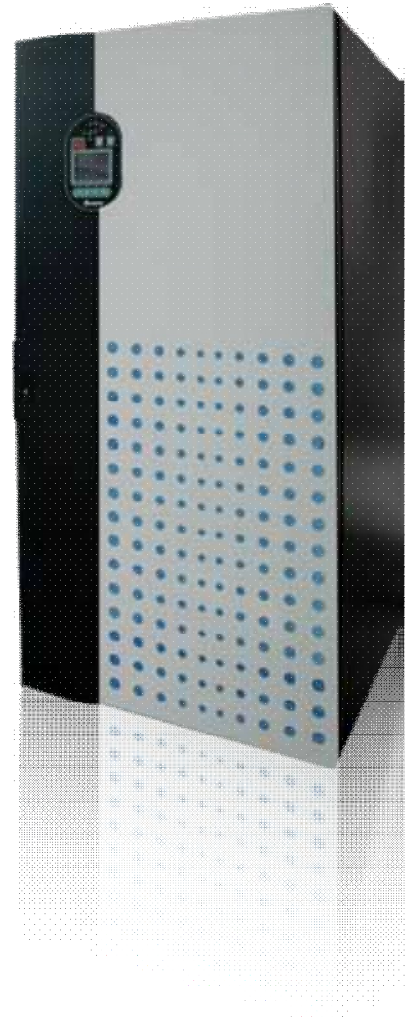
- High efficiency even at light load saves operating costs
- High input power factor (> 0.99) and low input harmonic distortion (iTHD < 3%) save upstream investment

### Flexibility

- Parallel expansion without extra hardware allows quick capacity upgrade to meet business growth

### Easy Maintenance

- Swappable fans reduce maintenance lead time
- Built-in manual bypass allows "zero downtime" to ensure system availability during service maintenance
- Main I/P and O/P switches detection provide quick diagnosis when faults occur



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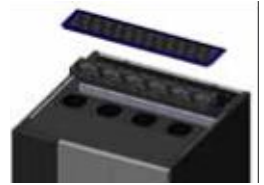
Technical Specifications						
Model		DPS-160K	DPS-200K	DPS-300K	DPS-400K	DPS-500K
Power Rating		160kVA	200kVA	300kVA	400kVA	500kVA
		144kW	180kW	270kW	360kW	450kW
Input	Nominal Voltage	380/220V, 400/230V, 415/240V (3 phase, 4-wire +G)				
	Voltage Range	242~477 Vac*1				
	Current Harmonic Distortion	< 3%*2				
	Power Factor	> 0.99				
	Frequency	50/60 ± 5 Hz				
Output	Voltage	380/220V, 400/230V, 415/240V (3 phase, 4-wire +G)				
	Output Power Factor	0.9				
	Voltage Harmonic Distortion	≤ 1.5 % (linear load)				
	Voltage Regulation	±1% (static)				
	Frequency	50/60 ± 0.05 Hz				
	Overload Capacity	≤ 125%: 10 minutes ; ≤ 150%: 1 minute				
Interface	Standard	RS232 x 1, Smart slot x 2, Dry contact output x 6, Dry contact input x 7, (Input dry contact (two sets), REPO x 1, External battery cabinet status detection x 1, External battery cabinet temperature detection x 4), Parallel port x 2, USB port x 1				
	Management Peripherals	SNMP card, Modbus card, Relay I/O control card, EnviroProbe, SNMP hub				
Display		Mimic LCD supports multi-language and LED indicators				
Conformance	Safety & EMC	EN 62040-1; CE; IEC 61000-4; IEC 62040-2				
Other Features	Parallel Redundancy and Expansion	Yes (up to 8 units)				
	Emergency Power Off	Yes (local and remote)				
	Event Log	500 records				
Efficiency	AC-AC	94-96% between half and full load 92-93% between 20% and 30% load				
	ECO Mode	Up to 99%				
Environment	Operating Temperature	0 ~ 40°C				
	Relative Humidity	0 ~ 95% (non-condensing)				
	Audible Noise (at one meter)	<70 dBA		<73 dBA		<76 dBA
Physical	Dimensions (WxDxH)	850x865x1950 mm		1600x865x1950 mm		
	Weight	697 kg		1200 kg		1220 kg

\*1 When input voltage is 242~324 Vac, the sustainable loading is from 70% to 100% of the UPS capacity.  
\*2 When input harmonic distortion is less than 1%.

All specifications are subject to change without prior notice.



Control and LCD Display Panel



Hot-swappable Fan



InsightPower Manager



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



**TÜVRheinland®** Precisely Right.

Delta Ultron DPS 160~400kVA Efficiency is Tested by TÜV