



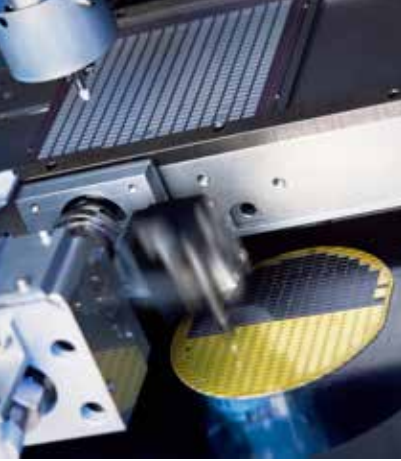
The power behind competitiveness

## Delta UPS-Ultron Family

DPS Series, Three Phase

From 60 to 400kVA, scalable up to 3200kVA in parallel

**Leading in power performance and efficiency**



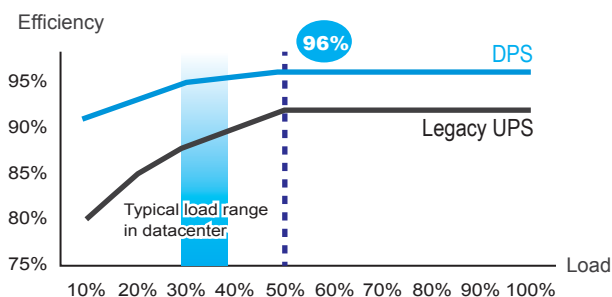
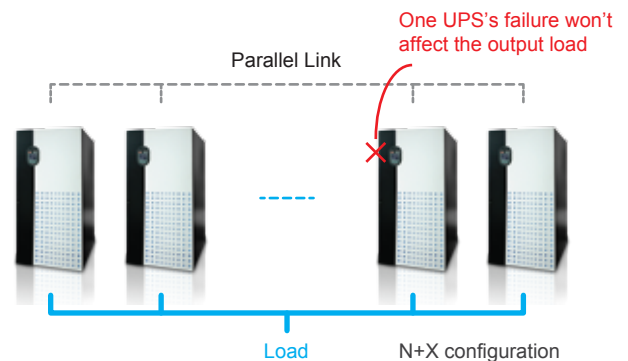
## Product Introduction

Delta's Ultron DPS is a double-conversion and IGBT-rectifier three phase UPS. With state-of-the-art TLI (Triple Level Inverter) and three phase PFC (power factor correction) topology, the Ultron DPS features industry leading performance of up to 96 % AC-AC efficiency, input power factor > 0.99, output power factor of 0.9 and low iTHD < 3%. 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.

## High Reliability

- N+X redundancy or hot-standby configuration increases system reliability
- Wide input voltage range (DPS 60~120kVA : -45% ~ +20% ; DPS 160~400kVA : -40% ~ +20%) allows the UPS to work in harsh electrical environments
- Field programmable sequential start-up reduces the impact on the generator
- Intelligent fan speed control and redundant fan design prevent UPS from overheating and increase system reliability



## Reduced Total Cost of Ownership

- High AC-AC efficiency even at light load levels reduces energy loss and saves operating costs
- High input power factor (> 0.99) and low input harmonic distortion (iTHD < 3%) eliminate the need to oversize the genset to save capital investment

## Easy Maintenance

- Hot-swappable fans reduce maintenance lead time (applicable for models 160~400kVA)
- Built-in manual bypass allows "zero downtime" to ensure system availability during service maintenance
- Main I/P, O/P and bypass switches detection provide quick diagnosis when faults occur



Datacenter



Telecom



Industrial



Network



Security



Lab



Medical



Metro



## High Flexibility

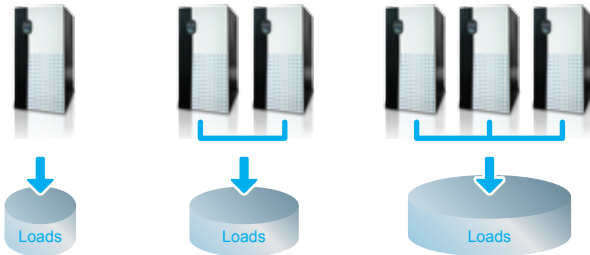
Delta Ultron DPS series UPS are available in full power ratings ranging from 60kVA to 400kVA in a single unit to fit each specific application requirement.

There are three different cabinets of Ultron DPS series UPS with optimized footprint. Customers can save valuable space from the leading power density and compact design. Light weight also reduces transportation and installation costs.

DPS 60/80/  
100/120 kVA

DPS 160/200 kVA

DPS 300/400 kVA



Parallel expansion of Ultron DPS series UPS up to 3200kVA without extra hardware allows quick capacity upgrade to meet business growth.

Common battery configuration of Ultron DPS in parallel mode can support customers to:

- Significantly save installation space and rent expenses
- Reduce additional investment on batteries
- Make UPS expansions easier without additional battery investment
- Save the costs of possible floor loading enhancement



## Intelligent Battery Management

Delta intelligent battery management system can sustain battery lifespan and the capacity of battery backed up through the functions of :

- Battery temperature monitoring & compensation
- Battery remaining capacity displayed in percentage
- Over charge/discharge protection

- Boost/float stage charge
- Auto/manual battery test
- 38~42 battery units in one battery cabinet optimizes investment (applicable for models 160~400kVA)

# DPS Series, Three Phase 60 to 120kVA

Technical Specifications					
Model		DPS-60K	DPS-80K	DPS-100K	DPS-120K
Power Rating (kVA)		60	80	100	120
Power Rating (kW)		54	72	90	108
Input	Nominal Voltage	380/220V, 400/230V (3 phase, 4-wire +G)			
	Voltage Range	-45% ~ 20% (208 ~ 477Vac) * <sup>1</sup>			
	Current Harmonic Distortion	<3% * <sup>2</sup>			
	Power Factor	> 0.99			
	Frequency	50/60 ± 5 Hz			
Output	Voltage	380/220V, 400/230V (3 phase, 4-wire +G)			
	Output Power Factor	0.9			
	Voltage Harmonic Distortion	≤ 3% (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,			
	Management Peripherals	Parallel port x 2SNMP card, Modbus card, Relay I/O control card, EnviroProbe			
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 4 units)			
	Emergency Power Off	Yes (local and remote)			
	Event Log	500 records			
Efficiency	AC-AC	Up to 94%			
	ECO Mode	Up to 97%			
Environment	Operating Temperature	0 ~ 40 °C			
	Relative Humidity	0 ~ 90% (non-condensing)			
	Audible Noise (at one meter)	70 dBA	72 dBA	72 dBA	73 dBA
Physical	Dimensions (WxDxH)	520 x 975 x 1695 mm			
	Weight	300 kg	330 kg	360 kg	390 kg

\*<sup>1</sup> When input voltage is 208~300 Vac, the sustainable loading is from 70% to 100% of the UPS capacity.

\*<sup>2</sup> When input harmonic distortion is less than 1%.

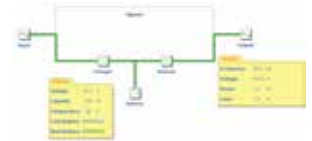
All specifications are subject to change without prior notice.



60/80/100/120 kVA



Control and LCD Display Panel



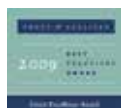
InsightPower Manager



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 Certified by ISO 9001 and ISO 14001 Standards



IECQ Certificate of Hazardous Substance Process Management



# DPS Series, Three Phase 160 to 400kVA

Technical Specifications					
Model		DPS-160K	DPS-200K	DPS-300K	DPS-400K
Power Rating (kVA)		160	200	300	400
Power Rating (kW)		144	180	270	360
Input	Nominal Voltage	380/220, 400/230, 415/240 Vac (3 phase, 4-wire + G)			
	Voltage Range	-40% ~ 20% (242 ~ 477/140 ~ 276 Vac) *			
	Current Harmonic Distortion	≤ 3%			
	Power Factor	> 0.99			
	Frequency	50/60 ± 5 Hz			
Output	Voltage	380/220, 400/230, 415/240 Vac (3 phase, 4-wire + G)			
	Voltage Harmonic Distortion	≤ 1.5% (linear load)			
	Voltage Regulation	± 1% (static)			
	Power Factor	0.9			
	Frequency	50/60 ± 0.05 Hz (with internal oscillator)			
	Overload Capability	≤ 125%: 10 minutes; ≤ 150%: 1 minute			
Display		Mimic LCD supports multi-language and LED indicators			
Interface	Standard	RS232 x 1, Smart slot x 2, Dry contact output x 6, Dry contact input x 2, Battery cabinet temperature x 4, Battery status detection			
		Parallel port x 2, REPO x 1			
	Management Peripherals	SNMP card, Modbus card, Relay I/O control card, EnviroProbe, SNMP hub			
Conformance	Safety & EMC	EN 62040-1; CE; IEC 61000-4; IEC 62040-2			
	Efficiency	AC-AC	Up to 96% (TÜV tested)		
	ECO Mode	Up to 99% (TÜV tested)			
Battery	Nominal Voltage	± 240 Vdc			
	Charge Voltage	± 272 Vdc			
Environment	Operating Temperature	0 ~ 40°C			
	Relative Humidity	0 ~ 95% (non-condensing)			
	Audible Noise (at one meter)	70 dBA		73 dBA	
	IP Degree of Protection	IP20			
Other Features	Parallel Redundancy & Expansion	Yes (up to 8 units)			
	Emergency Power Off	Yes (local and remote)			
Physical	Dimensions(WxDxH)	850 x 865 x 1950 mm		1600 x 865 x 1950 mm	
	Weight	697 kg		1335 kg	

\* When input voltage is 242 ~ 324/140 ~ 187 Vac, the sustainable loading is from 70% to 100% of the UPS capacity. All specifications are subject to change without prior notice.



160/200 kVA



300/400 kVA



Control and LCD Display Panel



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 Efficiency is Tested by TÜV





## Europe

### Czech Republic

Delta Energy Systems (Czech Republic), spol.s r.o.  
Perucka 2482/7  
120 00 Praha 2  
Czech Republic  
T +420 272 019 330  
F +420 271 751 799

### Finland

Delta Energy Systems (Finland) Oy  
Juvan teollisuuskatu 15  
02921 Espoo  
T +358 9 84966 0  
F +358 9 84966 100

### France

Delta Energy Systems (France) S.A.  
ZI du bois Chaland 2 15 rue des Pyrenees,  
Lisses  
91056 Evry Cedex  
T +33 1 69 77 82 60  
F +33 1 64 97 05 77

### Germany

Delta Energy Systems (Switzerland) AG  
German Office  
Coesterweg 45, D-59494 Soest  
59494 Soest  
T +49 2921 987 337  
F +49 2921 987 396

### Italy

Delta Energy Systems (Italy) S.R.L.  
Piazza Grazioli 18  
00186 Roma  
T +39 06 699 41 209  
F +39 06 699 42 293

### Poland

Delta Energy Systems (Poland)  
Sp. z.o.o. 23 Poleczki Str.  
02-822 Warsaw  
T +48 22 335 26 00  
F +48 22 335 26 01

### Russia

Delta Energy Systems (Russia)  
Vereyskaya Plaza II, office 503,  
Vereyskaya str.17  
121357 Moscow, Russia  
T +7 495 644 32 40  
F +7 495 644 32 41

### Slovak Republic

DELTA ELECTRONICS (SLOVAKIA), s.r.o.  
Botanická 25/A, SR-841 04 Bratislava,  
T +421 (0)2 6541 1258  
F +421 (0)2 6541 1283

### Spain

Delta Energy Systems (Spain)  
S.L. Calle Luis I  
nº 60, Nave 1a, P.I. de Vallecas  
28031 Madrid  
T +34 91 223 74 20  
F +34 91 332 90 38

### Sweden

Delta Energy Systems (Sweden) AB  
P.O.Box 3096  
35033 Växjö  
T +46 470 70 68 16  
F +46 470 70 68 90

### Switzerland

Delta Energy Systems (Switzerland) AG  
Freiburgstrasse 251  
3010 Bern-Bümpliz  
T +41 31 998 53 11  
F +41 31 998 54 85

### Turkey

Delta Greentech Electronic San. Ltd.  
Sti. Serifali Mevkii Barbaros Bulvari Söylesi  
Sok.  
No: 19, K1, Y.Dudullu-Umraniye  
34775 Istanbul  
T +90 216 499 9910  
F +90 216 499 8070

### United Kingdom

Delta Electronics Europe Ltd.  
1 Redwood Court  
Peel Park, East Kilbride  
G74 5PF  
T +44 1355 588 888  
F +44 1355 588 889

## Middle-East & Africa

### South Africa

Delta Energy Systems MEA (Switzerland) AG  
South Africa Representative Office  
Unit 305B, Lougardia Building,  
Cnr Embankment and Hendrik Verwoerd Drive,  
Centurion  
T +27 12 663 2714  
F +27 86 667 0469

## Americas

### Argentina

Delta Greentech  
Sarmiento 1889 5A  
Buenos Aires  
T +5411 4372 310

### Brazil

Delta Energy Systems (Brazil) S/A  
Rua Itapeva, Nº 26 - 3º andar  
01332 000 - São Paulo - SP  
T +55 11 3568 3874  
F +55 11 3568 3865

### Colombia

Delta Greentech  
Calle 213 # 114-10 manzana 14 casa 25  
Caminos de Arrayanes  
T +57 1 673 4927  
F +57 1 673 4927

## Asia Pacific

### China

Delta GreenTech (China) Co., Ltd.  
No.238 Minxia Road, Pudong  
P.R.C 201209 Shanghai  
T +86 21 5863 5678  
+86 21 5863 9595  
F +86 21 5863 0003

### India

Delta Power Solutions (India) Pvt. Ltd.  
Plot No. 43, Sector-35, HSIIDC,  
Gurgaon-122001, Haryana, India  
T +91 124 4874 900  
F +91 124 4874 945

### Taiwan

Delta Electronics Inc.  
39 Section 2, Huandong Road, Shanhua  
Township  
Tainan County 74144, Taiwan  
T +886 6 505 6565  
F +886 6 505 1919