UPS

Ultron, DPS Series

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 up to 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.


Illustrative photo

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
- Intelligent fan speed control and redundant fan design prevent overheating
- Comprehensive battery management sustains battery lifetime and optimal operation

Low Total Cost of Ownership (TCO)

- 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

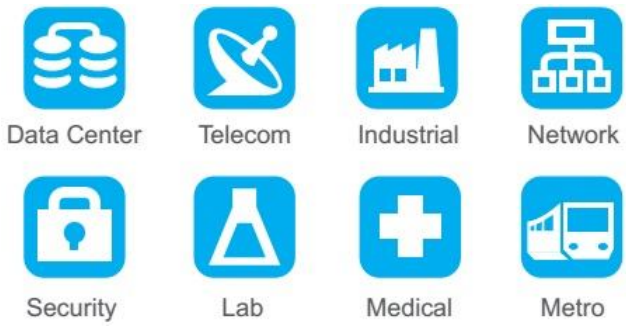
Flexibility

- 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, O/P and bypass switches detection provide quick diagnosis when faults occur.

Application



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Technical Specification

DPS Series	60K	80K	100K	120K	160K	200K	300K	400K
Power Rating	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	300kVA	400kVA
Power Rating	54kW	72kW	90kW	108kW	144kW	180kW	270kW	360kW
Input	**60K**	**80K**	**100K**	**120K**	**160K**	**200K**	**300K**	**400K**
Nominal Voltage	220/380 V_{AC}, 230/400 V_{AC} (3Φ + N + PE)							
Voltage Range	208~477 V_{AC} *				242~477 V_{AC} **			
Current Harmonic Distortion	<3 % ***							
Power Factor	> 0.99							
Frequency	50/60Hz ±5Hz							
Output	**60K**	**80K**	**100K**	**120K**	**160K**	**200K**	**300K**	**400K**
Nominal Voltage	220/380 V_{AC}, 230/400 V_{AC} (3Φ + N + PE)							
Output Power Factor	0,9							
Voltage Harmonic Distortion	≤3 % (linear load)				≤1,5 % (linear load)			
Voltage Regulation	±1 % (static)							
Frequency	50/60Hz ±0,05Hz							
Overload Capacity	≤125%: 10 minutes; ≤150%: 1 minute							
Interface	**60K**	**80K**	**100K**	**120K**	**160K**	**200K**	**300K**	**400K**
Standard	1x RS232, 2x Smart Slot, 6x Dry contact output, 7x Dry contact input, 2x Parallel Port				1x RS232, 2x Smart Slot, 6x Dry contact output , 2x Dry contact input , 4x Battery cabinet temperature sensor, Battery status detection, 2x Parallel Port , 1x REPO			
Management Peripherals	SNMP card, ModBus card, Relay I/O card, EnviroProbe, SNMP hub							
Display	Mimic LCD supports multi-language and LED indicators							
Other features	**60K**	**80K**	**100K**	**120K**	**160K**	**200K**	**300K**	**400K**
Safety and EMC	EN62040-1; CE; IEC 61000-4; IEC62040-2							
Parallel Redundancy and Expansion	yes (up to 4 units)				yes (up to 8 units)			
Emergency Power Off	Local and remote							
Event Log	500 records				3000 records			
Efficiency	up to 96% AC-AC Mode/ up to 99% ECO Mode							
Operating Temperature	0°C ~ + 40°C							
Relative Humidity	0-95% (non-condensing)							
Audible Noise	<73 dBA @ 1m							
Dimensions (wxdxh) (mm)	520x975x1695				850x865x1950		1600x865x1950	
Weight (kg)	300	330	360	390	697		1335	

* When input voltage is 208-300 Vac, the sustainable loading is from 70% to 100% of the UPS capacity.
** When input voltage is 242-324 Vac, the sustainable loading is from 70% to 100% of the UPS capacity.
*** When input harmonic distortion is less than 1%.

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