



# ONLINE UPS

## 10Kva - 800Kva [3:3 Phase]



### SPECIAL FEATURES:

- True on-line dual conversion design
- Generator Compatible
- All Protections over/low-voltage, overcurrent, overload
- Intelligent Battery Management, extended battery life
- Intelligent Self diagnose function, all kinds of fault protection
- Modularized design of subsystems
- Bypass back feed protection, battery leakage protection
- Parallel Redundancy design, increase the system reliability
- Customizable wide input voltage range
- Large size input LCD display on front panel



### APPLICATION:

- ⊙ IT device
- ⊙ Data center
- ⊙ Telecommunication
- ⊙ Industry
- ⊙ Computers room
- ⊙ Precision instrument
- ⊙ Intelligent equipment
- ⊙ Server, router, network device.

## Technical Specifications: (3:3 Phase)

Model	3P10K	3P15K	3P20K	3P30K	3P40K	3P60K	3P80K
Capacity (VA/Watts)	10K/8K	15K/12K	20K/16K	30K/24K	40K / 32K	60K / 48K	80K / 64K
<b>INPUT</b>							
Nominal voltage	380/400/415Vac, (3Ph+N+PE)						
Operating voltage range	208~478Vac						
Operating frequency range	40 ~ 70Hz						
Power factor	≥0.99						
Harmonic distortion (THD)	2%(100% nonlinear load)						
Bypass voltage range	Max. Voltage: 220V +25% (optional +10%, +15%, +20%) 230V 20% (optional +10%, +15%) 240V 15% (optional +10%), Min voltage: -45% (optional -20%, -30%), Frequency protection range: ±10%						
Generator input	Support						
<b>OUTPUT</b>							
Output voltage	380/400/415Vac, (3Ph+N+PE)						
Voltage regulation	±1%						
Power factor	0.8/0.9 (Customized)						
Output frequency	1.Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (optional) 2.Battery Mode: (50/60±0.2%)Hz						
Crest factor	3:1						
Harmonic distortion (THDv)	≤2% with linear load ≤5% with non linear load						
Efficiency	94.5%				95%		
<b>BATTERY</b>							
Battery voltage	Standard unit: ±216Vdc; Long run unit Optional voltage: ±192V\±204V\±216V\±228V\±240Vdc						
Battery type	12V/38Ah (standard unit)						
Charge Current (A) (charge current can be set according to battery capacity installed)	5.7A (Max./Standard unit) 6.0A (Max./Long run unit)		12A (Max.)			18A (Max.)	
<b>SYSTEM FEATURES</b>							
Transfer time	Utility to Batter : 0ms; Utility to bypass: 0ms						
Overload	Line Mode	Load ≤110%: last 60min, ≤125%: last 1min, ≥150% turn to bypass mode immediately					
	Bat. Mode	Load ≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, ≥150% shut down UPS immediately					
Short circuit	Hold Whole System						
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately						
Low battery voltage	Alarm and Switch off						
Self-diagnostics	Upon Power On and Software Control						
EPO (optional)	Shut down UPS immediately						
Battery	Advanced Battery Management						
Nose Suppression	Complies with EN62040-2						
Audible & Visual	Line Failure, Battery Low, Overload System Fault						
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault						
Reading on the LCD display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature						
Communication interface	RS232, RS485, Parallel, Intelligent slot, Relay card (optional), SNMP card (optional)						
<b>ENCIRONMENTAL</b>							
Operating temperature	0~40°C						
Storage temperature	-25 ~ 55°C						
Humidity range	0 ~ 95% (non – condensing)						
Altitude	<1500m						
Noise level	<55dB						
<b>PHYSICAL</b>							
Dimension W x D x H (mm)	780 x 600 x 1200						
Net weight (KG)	S:598 H:129	S:600 H:131	S:602 H:133	S:603 H:134	170	172	199
<b>STANDARDS</b>							
Safety	IEC/EN62040-1; IEC/EN60950-1						
EMC	IEC/EN602040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC 61000-4-8						

Specifications are subject to change without prior notice.

Manufacturer

**Apollo Power Technology Co. Ltd.**

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## Technical Specifications: (3:3 Phase)

Model	3P100K	3P120K	3P160K	3P200K	3P300K	3P400K	3P500K	3P600K	3P800K
Capacity (VA/Watts)	100KVA/ 90KW	120KVA/ 108KW	160KVA/ 144KW	200KVA/ 180KW	300KVA/ 270KW	400KVA/ 360KW	500KVA/ 450KW	600KVA/ 540KW	800KVA/ 720KW
<b>INPUT</b>									
Operating Voltage range	380/400/415Vac (-25%/+20%), (3Ph+N+PE)								
Operating frequency range	50/60Hz (±5Hz)								
Power factor	>0.9 (with filter)					>0.85			
<b>OUTPUT</b>									
Output voltage	380/400/415Vac (± 1%)								
Max. output current	152A	182A	243A	304A	456A	608A	760A	912A	1216A
Output frequency	50/60Hz (± 0.05%)								
Harmonic distortion (THD)	<2% (linear load)								
Crest factor	3:1 (Max.)								
Efficiency	>92%	>92%	>92%	>92.5%	>93%	>94%	>95%	>95%	>96%
<b>BYPASS</b>									
Rated voltage	380/400/415Vac								
Rated frequency	50/60Hz (auto – sensing)								
Voltage protection range	Upper limit: +20% (+10%, +15%, +20% adjustable) Lower limit: -40%, (-10%, -20%, -30%, -40% adjustable)								
Frequency protection range	± 10% (±2.5%, ±5%, ±10%, ±20% adjustable)								
<b>BATTERY</b>									
Battery voltage	384Vdc					480Vdc			
<b>SYSTEM FEATURES</b>									
Transfer time	0ms (Line mode ↔ Battery mode)								
Overload	110%/60min, 125%/10min, 150%/1min								
LED display	Input, Inverter, Bypass, Battery, Output, Status								
LCD display	I/O voltage, frequency, power factor, battery voltage, current, battery status, load percentage, UPS status, history record, settings								
Communication interface	Dry contact, RS232, RS485, SNMP card (Optional)								
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current- sharing inductor								
<b>ENCIRONMENTAL</b>									
Operating temperature	0~40°C								
Storage temperature	-25°C ~ 55°C								
Humidity range	0 ~ 95% (non-condensing)								
Altitude	<1500m								
Noise level	<65dB					<70dB			
<b>PHYSICAL</b>									
Dimension W x D x H (mm)	1160x805x1600 (6P) 1520x830x1600 (12P)		1400x945x1900 (6P) 1640x1040x1900(12P)		1640x1040x1900(6P) 1760x1040x1900(12P)		2800x1040x1900(12P)		3900x1100 X1950(12P)
Net weight (KG)	800/1100	903/1250	1219/1774	1425/1893	1780/2580	2050/3050	3700	4500	6400
Shipping weight (KG)	890/1190	993/1293	1349/1954	1555/2073	1950/2850	2200/3300	3950	4750	6700
<b>STANDARDS</b>									
Safety	IEC/EN62040-1; IEC/EN60950-1								
EMC	IEC/EN602040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC 61000-4-8								

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