

MUO

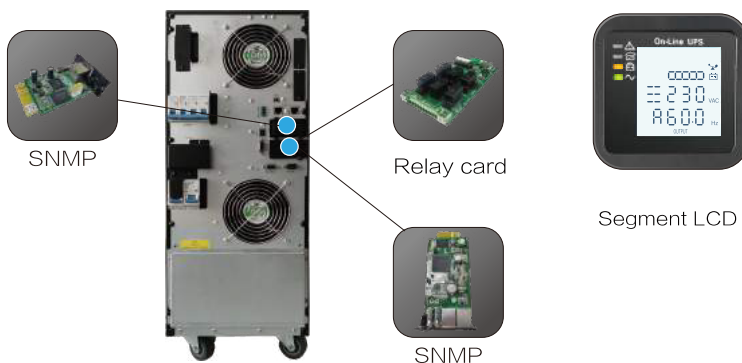
3:1 phase PF 1.0 (Online UPS)

Capacity:10~20kVA



Features

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Optimization battery group, the quantity of battery: 16/18/20pcs (32~40pcs is optional)
- Wide input voltage range: 208~478Vac
- Wide input frequency range :40Hz~70Hz
- Input current harmonic: <3%
- Dual input source (Optional)
- Maximum charging current up to 18A (Settable)
- Support 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Design with maintenance switch
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/USB/EPO /Dry contact port (Relay card/SNMP card/Parallel cable/Battery temperature sensor optional)



Technical Specifications:

MODEL	MUO-10K 3-1 H	MUO-10K 3-1 S	MUO-15K 3-1 H	MUO-15K 3-1 S	MUO-20K 3-1 H	MUO-20K 3-1 S
Capacity	10kVA / 10kW		15kVA / 15kW		20kVA / 20kW	
INPUT						
Nominal voltage	380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)					
Operating voltage range	208~478Vac ; 120~276Vac					
Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)					
Power factor	≥0.99					
Harmonic distortion (THDi)	≤3% Linear 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-10%,-20%,-30%)					
FREQUENCY						
Frequency protection range	50/60Hz ± 10%					
OUTPUT						
Output voltage	220/230/240Vac (L+N+PE)					
Voltage regulation	± 1%					
Power factor	1.0					
Output frequency	Line Mode	± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional)				
	Bat. Mode	(50/60 ± 0.1%)Hz				
Transfer time	AC mode to Bat.Mode	0ms				
	Inverter to Bypass	0ms				
Output waveform	Pure Sinewave					
Crest factor	3:1					
Harmonic distortion (THDv)	≤2% Linear load					
	≤5% Non linear load					
Overload	AC mode	Load ≤ 110%: last 60min turn to bypass; ≤ 125%: last 10min turn to bypass; ≤ 150%: last 1min turn to bypass; ≥ 150% turn to bypass mode immediately				
	Bat.mode	Load ≤ 110%: last 10min; ≤ 125%: last 1min; ≤ 150%: last 5s; ≥ 150% shut down UPS immediately				
	Bypass mode	Breaker 2x32A	Breaker 2x50A		Breaker 2x63A	
EFFICIENCY						
Efficiency	up to 93.5%			up to 94.5%		
BATTERY						
Battery voltage	Standard unit	± 120Vdc (20pcs 9Ah) (20pcs 7Ah、2x20pcs 7/9Ah optional)		± 120Vdc (2x20pcs 9Ah) (2x20pcs 7Ah optional)		
	Long run unit	± 96Vdc~ ± 120Vdc (16~20pcs, 16pcs default, Standard unit and 20pcs no power derating; 18pcs output power factor 0.9; 16pcs output power factor 0.8) ± 192/204/216/228/240Vdc (32/34/36/38/40pcs optional)				
Charging current	14A Max.	1.35A(2.7A optional)	16A Max.	2.7A	18A Max.	2.7A
charging current can be set according to battery capacity						
PHYSICAL						
Dimension W x D x H (mm)	H: 250 x 580 x 655 ; S: 250 x 900 x 868					
Net weight (kg)	33/125		37/180		38/181	
ENVIRONMENTAL						
Operating temperature	0°C ~ 40°C					
Storage temperature	-25°C ~ 55°C					
Humidity range	0 ~ 95% (Non condensing)					
Altitude	<1500m,derating required when>1500m					
Noise level	<55dB at 1 Meter			<58dB at 1 Meter		
STANDARDS						
Safety	IEC/EN62040-1,IEC/EN62477-1					
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8					

Specifications are subject to change without prior notice.