

MUO

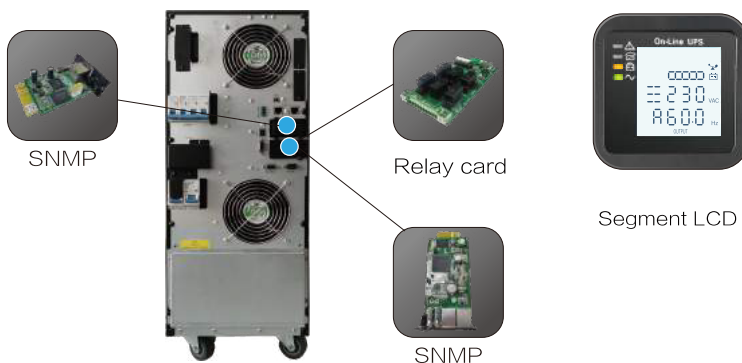
3:1 phase PF 0.9 (Online UPS)

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 PF0.9	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	10KVA/9KW	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	0.9	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℃ ~ 40℃						
Storage temperature		-25℃ ~ 55℃						
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.