

UM-RT series 3:1

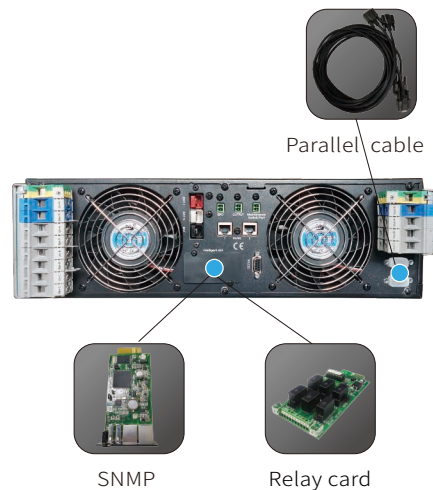
3:1 phase PF 1.0, Support 3/3 and 3/1 and 1/1 operation

Power range:10kVA~20kVA



Features

- LCD support Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery: 30~50pcs is settable
- Maximum charging current up to 20A (Settable)
- Dual input source
- Support 3/3 and 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz Frequency converter mode
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- RS232, RS485, Parallel, Intelligent Slot (SNMP card/Relay card (Optional), BMS (Optional), EPO port, Output port, MAINTAIN-AUXSWS port
- PDU with maintenance bypass switch (Optional)



Technical Specification

MODEL	UMRT10KMP31	UMRT15KMP31	UMRT20KMP31
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		
Operating frequency range	40-70Hz (50/60Hz Auto-Sensing)		
Power factor	≥0.99		
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	50/60Hz±10%		
Harmonic distortion (THDi)	≤3% Linear load		
OUTPUT			
Output voltage	380/400/415Vac (3Ph+N+PE) 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	Line mode	Load≤110%: last 60min; ≤125%: last 10min; ≤150%: 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	
	Bypass mode	Breaker (Load < 125%, long-term operation)	
EFFICIENCY			
Efficiency	up to 94.5%		up to 95%
BATTERY			
Battery voltage	±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/4/46/48/50pcs settable)		
Charge current	18A Max.		20A Max.
PHYSICAL			
Dimension W×D×H	443×580×131mm (3U)		
Net weight	29kg	31kg	32kg
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		<58dB
STANDARDS			
Safety	IEC/EN 62040-1, IEC/EN 62477-1		
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)		

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design