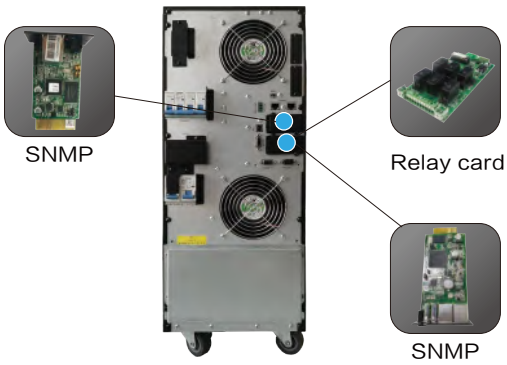
UMTWR Series 3:1

3:1 phase PF 0.9, support 3/1 and 1/1 operation

Power range: 10kVA～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 supportable)
- 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)



UNOMAT INTERNATIONAL

Technical Specifications:

MODEL		UM10000TWR31	UM15000TWR31	UM20000TWR31
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 2×32A	Breaker 2×50A	Breaker 2×63A
EFFICIENCY				
Efficiency		Up to 93.5%	Up to 94.5%	
BATTERY				
Battery voltage	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 supportable)		
Charging current		14A (Max.)	16A (Max.)	18A (Max.)
		Charging current can be set according to battery capacity		
PHYSICAL				
Dimension (W×D×H)	Long run unit	250×580×655mm		
Net weight	Long run unit	33kg	37kg	38kg
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/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