

# UNOMAT®

INTERNATIONAL



1-Phase Rack/Tower Online UPS  
UM series 6000VA / 10000VA

# UM RT 6000VA / 10000VA

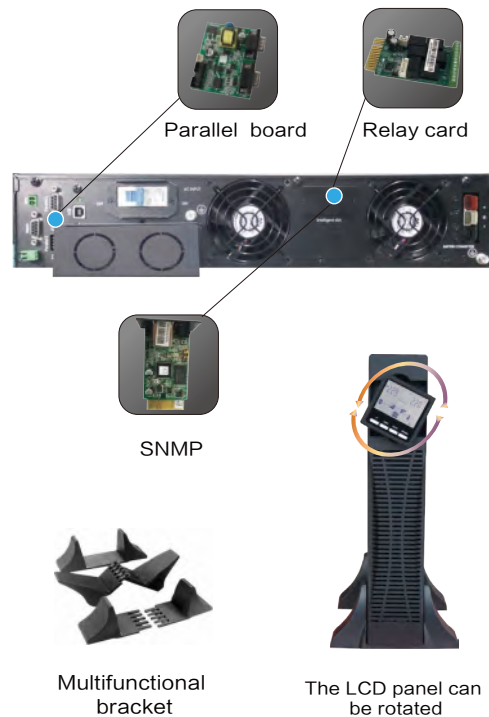
1:1 Phase PF 0.9 (PF 1.0 optional)

Power range: 6kVA ~ 10kVA



## Features

- High power density
- LCD supports Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110 ~ 286Vac
- Wide input frequency range
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/PO (Relay card /SNMP card optional)
- Parallel kit default
- Maximum charging current up to 10A
- Cold start
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- PDU with maintenance bypass switch (Optional)



# UM RT 6000VA / 10000VA

## Technical Specifications:

MODEL	UM RT 6000	UM RT 10000
Capacity	6000VA/5400W	10000VA/9000W
<b>INPUT</b>		
Nominal voltage	208/220/230/240Vac	
Input voltage range	110~286Vac	
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%)	
<b>FREQUENCY</b>		
Frequency range	40~70Hz (50/60Hz Auto-Sensing)	
<b>OUTPUT</b>		
Output voltage	208/220/230/240Vac	
Voltage regulation	±1%	
Power factor	0.9	
Output frequency	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional) (50/60±0.1%)Hz	
Crest factor	3:1	
Harmonic distortion (THDv)	≤2% Linear load ≤5% Non linear load	
Transfer time	AC mode to Bat.mode Inverter to Bypass	0ms 0ms
Output waveform	Pure Sinewave	
Overload	Line mode Bypass mode	Load ≤110% last 60min; ≤125% last 10min; ≤150% last 1min; >150% turn to bypass mode immediately 40A (Breaker) 63A (Breaker)
Efficiency	Up to 93.5%	
<b>BATTERY</b>		
Battery voltage	±96/±108/±120Vdc (Settable)	
Typical recharging time	6~8 hours (To 90% of full capacity)	
Charging current	Max.current 10A (Charging current can be set according to battery capacity)	
<b>INDICATORS</b>		
LED display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault	
LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time	
<b>ALARM</b>		
Battery mode	Beeping every 4 seconds	
Battery low	Beeping every second	
Overload	Beeping twice every second	
Fault	Continuously beeping	
<b>PHYSICAL</b>		
Dimension (W×D×H)	440×625×86.5mm	
Net weight	16kg	18kg
<b>ENVIRONMENT</b>		
Operating temperature	0°C~40°C	
Storage temperature	-25°C~55°C	
Humidity range	20~95%RH @ 0~40°C (Non condensing)	
Altitude	<1500m, derating required when >1500m	
Noise level	<55dB at 1 Meter	<58dB at 1 Meter
<b>STANDARDS</b>		
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. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design

## UM BR Battery Rack ▶▶

### UM BR 6–10kVA battery rack specification

MODEL	UM BR207	UM BR209
<b>BATTERY SYSTEM</b>		
Battery type	VRLA (Lead acid maintenance free battery)	
Typical battery recharging time	6–8 hours (To 90% of full capacity)	
Typical battery life	3 – 5 years, depend on discharging cycle and ambient temperature	
System voltage	± 120Vdc	
Battery quantity	20 PCS	
Capacity	20 x 7Ah / 12V	20 x 9Ah / 12V
<b>PHYSICAL</b>		
Dimension (W × D × H)	440 × 680 × 131mm (3U)	
Net weight	58kg	63kg
<b>ENVIRONMENT</b>		
Safety	CE	
Operating environment	0°C ~ 40°C	
Relative humidity	0–95% (Non condensing)	
Noise level	< 40dB at 1 Meter	

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

3. Remark: UM BR207 "UM" means series; "BR" means Battery Rack; "20" means battery number inside the Rack; "7" / "9" means the battery capacity