

# UNOMAT®

INTERNATIONAL



1-Phase Online UPS  
UM Series 6000VA / 10000VA

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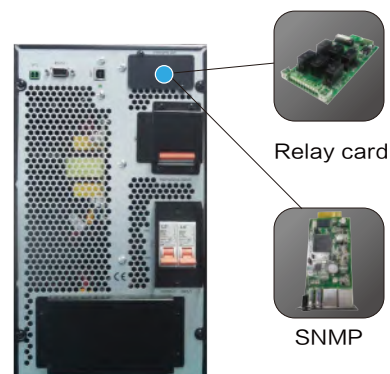
1:1 Phase PF 0.9 (PF 0.8 optional)

Power range: 6kVA ~ 10kVA



### Features

- Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110~286Vac
- Input power factor 0.99 with PFC
- Wide input frequency range
- Selectable output voltage: 208/220/230/240Vac
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/EPO (Relay card /SNMP card optional)
- Cold start
- Design with maintenance switch (Optional)
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



# UM Series 6000VA / 10000VA

## Technical Specifications:

MODEL	UM 6000		UM 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: 230 ~ 264Vac Min.voltage: 176 ~ 220Vac		
<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	Line mode	± 10% of the rated frequency	
	Bat. mode	(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	0ms	
	Inverter to Bypass	5ms (Typical)	
Output waveform	Pure Sinewave		
Overload	Line mode	Load ≤ 105% long time running; ≤ 125% last 10min; ≤ 130% last 30s; > 130% turn to bypass mode immediately	
	Bypass mode	40A (Breaker)	63A (Breaker)
Efficiency	Up to 93.5%		
<b>BATTERY</b>			
Battery voltage	240Vdc		
Capacity	16 x 7Ah/12V		16 x 9Ah/12V
Typical recharging time	6 ~ 8 hours (To 90% of full capacity)		
Charging current	1.35A (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)	S: 191 × 460 × 720mm (With wheel)		
Net weight	69.5kg		71kg
<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