

MERCURY TOWER

1000VA | 2000VA | 3000VA



- True online double conversion
- LCD display with multifunction parameter settings & operational status
- Wide input voltage range
- Generator compatible
- Eco mode: Support economic operation mode
- Cold start function
- Includes communication software
- 3-level intelligent charging modes
- Output power factor 0,9
- >90% high efficiency models available
- Suitable for IT and electronic equipment
- Optional SNMP

*The images shown are for illustration purposes only and may not be an exact representation of the product

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HIGH FREQUENCY ONLINE TECHNOLOGY

TECHNICAL SPECIFICATIONS

MODEL	MER0111		MER0211	MER0311	
Phase	Single Phase with ground				
Capacity (VA / Watts)	1000V / 900W		2000VA / 1800W	3000VA / 2700W	
INPUT					
Nominal Voltage	208 / 220 / 230 / 240 VAC				
Operating Voltage Range (Ambient Temp <40°C)	Low Line Transfer	176Vac ± 5% @ 100% - 50% load; 110Vac ± 5% @ 50% - 0% load;			
	Low Line Comeback	186Vac ± 5% @ 100% - 50% load; 120Vac ± 5% @ 50% - 0% load;			
	High Line Transfer	264Vac ± 5% @ 100% - 50% load; 300Vac ± 5% @ 50% - 0% load;			
	High Line Comeback	254Vac ± 5% @ 100% - 50% load; 290Vac ± 5% @ 50% - 0% load;			
Operating Frequency Range **	40 - 70Hz				
Power Factor	0.99 @ 100% load (Nominal Input Voltage)				
Bypass Voltage Range	Bypass High Voltage Point	230 - 264: Setting the high voltage point in LCD from 230Vac to 264Vac (Default: 264Vac)			
	Bypass Low Voltage Point	176 - 220: Setting the low voltage point in LCD from 176Vac to 220Vac (Default: 176Vac)			
Generator Output	Support				
OUTPUT					
Output Voltage *	200*208 / 220 / 230 / 240Vac				
Power Factor	0.9				
Voltage regulation	8±1%				
Frequency	Line Mode (Synchronized range)	46-54Hz or 56-64Hz			
	Battery Mode	(50 / 60± 0.1)Hz			
Crest Factor	3 : 1				
Harmonic Distortion (THDv)	≤3% THD (Linear load) ≤5% THD (None-Linear load)				
Waveform	Pure Sinewave				
Transfer Time	AC Mode <-> Battery Mode	Zero			
	Inverter <-> Bypass	4ms (Typical)			
Efficiency	88% (AC Mode) 85% (DC Mode)		90% (AC Mode) 86% (DC Mode)		90% (AC Mode) 87% (DC Mode)
BATTERY					
Battery Type	Depends on the capacity of external batteries		Depends on the capacity of external batteries		Depends on the capacity of external batteries
Numbers	2 (Standard Run)		4		6
Backup	Long run unit depends on the capacity of external batteries				
Typical recharge Time (Standard Model)	4 Hours recover to 90% capacity (Typical)				
Charging Voltage	27.4 ± 1%		54.7 ± 1%		82.1 ± 1%
Charge Current	1A / 6		1A		1A
SYSTEM FEATURES					
Overload	Line Mode	105% ~ 125%: UPS transfer to bypass after 1minute when utility is normal 125% ~ 130%: UPS transfer to bypass after 30 seconds when utility is normal >130%: UPS transfer to bypass immediately when utility is normal			
	Battery Mode	105% ~ 125%: UPS after 1minute shut down 125% ~ 130%: UPS after 10 seconds shut down >130%: UPS immediately shut down			
Short Circuit	Hold whole system				
Overheat	Line mode: Switch to bypass; Backup mode: Shut down UPS immediately				
Low Battery Voltage	Alarm and switch off				
EPO (Optional)	Shut down UPS immediately				
Audible & Visual Alarms	Line Failure, Battery Low, Overload, System Fault				
Communication Interface	USB (or RS232, SNMP card (optional), Relay card (optional))				
ENVIRONMENT					
Operating Temperature	0°C ~ 40 °C				
Storage Temperature	-25°C ~ 55°C				
Humidity	20~90% RH @ 0~40°C (Non-condensing)				
Altitude	< 1500m				
Noise Level	Less than 55dBA at 1 Meter				
PHYSICAL					
Dimensions (WxDxH) mm	144 × 293 × 209		191 × 460 × 337		191 × 460 × 337
Net Weight (kg)	4.1		10.3		10.9
STANDARDS					
Operating Temperature	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				
SUITABLE APPLICATIONS			IT APPLICATIONS TELECOMS COMMERCIAL HOME SECURITY		

*Derate to 80% of capacity when the output voltage is adjusted to 200/208VAC

**Derate to 75% of capacity when the input voltage frequency out of range (50/60±4Hz)

***Product specifications are subject to change without further notice

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