

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		
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;	
Operating Frequency Range **	High Line Comeback	254Vac ± 5% @ 100% - 50% load; 290Vac ± 5% @ 50% - 0% load;	
	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)	90% (AC Mode)	90% (AC Mode)
	85% (DC Mode)	86% (DC Mode)	87% (DC Mode)
BATTERY			
Battery Type	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 Protection	Available		
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))		
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