

# MERCURY SI

1000VA | 2000VA | 3000VA

**UPS**  
warehouse



## **SODIUM-ION POWERED ON-LINE UPS**

- True online, double conversion
- Output power factor 1.0
- Powered by sodium-ion batteries (NA+)
- Super-fast charging
- Pure Sine Wave
- 1C Recharge rate
- >3C High discharge rate
- Long life design
- Strong thermal tolerance
- Exceptional low-temperature performance
- Robust and efficient



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## HIGH FREQUENCY ONLINE TECHNOLOGY TECHNICAL SPECIFICATIONS



| MODEL    | MER01KT SI | MER02KT SI | MER03KT SI |
|----------|------------|------------|------------|
| Capacity | 1kVA / 1kW | 2kVA / 2kW | 3kVA / 3kW |

| INPUT           |  |
|-----------------|--|
| Nominal Voltage | 208/220/230/240VAC                       |
| Voltage Range   | 100-300VAC                               |
| Frequency       | 40Hz - 70Hz                              |
| Power Factor    | >0.99                                    |
| THDi            | ≤3% (linear load); ≤5% (non-linear load) |

| OUTPUT             |  |
|--------------------|--|
| Nominal Voltage    | 208/220/230/240VAC   |
| Voltage Regulation | ±1%  |
| Frequency          | 50/60Hz±0.1%   |
| Crest Ratio        | 3:1  |
| THDu               | ≤2% (linear load); ≤5%(non-linear load)                          |
| Transfer Time      | Line mode to battery mode,0ms; inverter to bypass ,4ms (typical) |
| Power Factor       | 1.0  |
| Waveform           | Pure Sine Wave   |
| Overload Time      | Line mode: Battery mode:   |
|                    | Max 30min@102%-110% load 1min@102%-110% load                     |
|                    | Max 10 min@110-130% load 10s@110-130% load                       |
|                    | Max 30s@130%-150% load 3s@130%-150% load                         |
|                    | 200ms@> 150% load 200ms@> 150% load                              |

| EFFICIENCY   |              |
|--------------|--------------|
| Line Mode    | 91%          |
| Battery Mode | 88.5%(36VDC) |
| ECO Mode     | 98%          |

| BATTERY (Sodium-ion) |               |
|----------------------|---------------|
| Energy               | 36V / 172.8Wh |
| Run Time (100% Load) | 5min          |
| Run Time (50% Load)  | 15min         |
| Charging Time        | 1H to 100%    |

| MANAGEMENT       |   |
|------------------|---|
| Intelligent Port | RS232 / USB port - Upsilon 2000 Standard / SNMP card optional |

| ENVIRONMENT           |                             |
|-----------------------|-----------------------------|
| Operation Temperature | 0-40°C                      |
| Storage Temperature   | -15-60°C (Battery:0~40°C)   |
| Relative Humidity     | 0-95%(non-condensing)       |
| Noise                 | <50dB@1 meter               |
| Altitude              | Up to1000m without derating |

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|-------------------------------------|---|--------------|--------------|
| Capacity                            | 1kVA / 1kW  | 2kVA / 2kW   | 3kVA / 3kW   |
| <b>STANDARD &amp; CERTIFICATION</b> |   |              |              |
| Standard and Approvals              | EN/IEC 61000, EN/IEC 62040  |              |              |
| <b>PHYSICAL</b>                     |   |              |              |
| Case Size (WxDxH) (mm)              | 145x275x220   | 190x390x320  |              |
| Weight (KG)                         | 7.95(sodium)  | 12.3(sodium) | 15.2(sodium) |
| Carton Size (WxDxH) (mm)            | 333x360x330   | 285x500x430  |              |
| <b>WARRANTY</b>                     |   |              |              |
| Battery                             | 2 Years   |              |              |
| UPS                                 | 1 Year  |              |              |
| <b>SUITIBLE APPLICATIONS</b>        | COMMERCIAL   MEDICAL   AUTOMATION   SECURITY   TELECOMS   IT APPLICATIONS |              |              |