

# UPS SERIES | ONLINE TOWER



The ONLINE TOWER UPS 1-3kVA is a new-generation, low-power UPS from KAISE. Both input and output are single-phase, with an output factor of 1.0. With 94% efficiency, it can achieve energy savings and reduce customer costs as a result.



Blue LCD



Optimized Battery Configuration  
9Ah

## Features

- ❖ High power density
- ❖ Online double conversion with full digital control
- ❖ Wide input voltage range: 110~300Vac
- ❖ Input power factor 0.99 with PFC
- ❖ Selectable output voltage: 208/220/230/240Vac
- ❖ Smart charger design for optimized battery performance
- ❖ Maximum charging current can be expanded to 12A (Long run unit)
- ❖ ECO mode operation for energy saving
- ❖ Generator compatible
- ❖ Cold start
- ❖ Intelligent fan speed regulation
- ❖ Versatile LCD human-computer interface
- ❖ Multiple communication interface: RS232 / USB
- ❖ Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



Rear Panel



Socket

## Technical Specifications

MODEL	KUTON 1k S	KUTON 2k S	KUTON 3k S
Capacity (VA/W)	1000/ 900	2000/1800	3000/2700
INPUT			
Nominal Voltage (Vac)		208/220/230/240	
Operating Voltage Range (Vac)		110~300 (176~264 @ 100% load)	
Power Factor		≥0.99	
Bypass Frequency Range (Hz)		40~70 (50/60 Auto-Sensing)	
OUTPUT			
Nominal Voltage (Vac)		208/220/230/240	
Voltage Regulation		±1%	
Power Factor		0.9	
Output Frequency (Hz)		Line mode: 46~54 or 56~64; Bat. mode: (50/60±0.1%)	
Crest Factor		3:1	
Harmonic Distortion (THDv)		≤3% Linear load; ≤5% Non linear load	
Transfer Time (ms)		AC mode to Bat.mode: 0; Inverter to Bypass: 4 (Typical)	
Waveform		Pure Sinewave	
Number of Schuko	2		3
EFFICIENCY			
AC Mode	Up to 90%	Up to 91%	Up to 92%
ECO Mode	Up to 95%	Up to 96%	Up to 97%
BATTERY			
Battery Type		VRLA (Lead acid maintenance free battery)	
Battery Voltage (Vdc)	24	48	72
Battery Capacity (Ah)		S: 7/9; H: Depends on the capacity of external batteries	
Charging Current (Max.) (A)	1	1	1
Typical backup times at 50 and 70% load*	10min	12min	10min
MANAGEMENT			
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	
ENVIRONMENTAL			
Operating Temperature (°C)		0~40	
Storage Temperature (°C)		-25~55	
Humidity Range		20~95%RH @ 0~40°C (Non condensing)	
Altitude (m)		<1000, derating required between 1000 to 3000	
Noise Level (dB)		<55	
PHYSICAL			
Dimension WxDxH (mm)	144x293x209	191x460x337	191x460x337
Weight (kg)	9.3	19.5	24.5
STANDARDS			
Safety		IEC/EN 62040-1, IEC/EN 62477-1	
EMC		IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8	

\* Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

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

