

CL101 ONLINE UPS

1 kVA

Advanced Battery Management

Automatic Frequency Detection

DSP Control Technology



CL101 (1kVA) Online UPS is an uninterruptible power supply designed with true double conversion technology and DSP (Digital signal processors) controlled processor. Thanks to True Double Conversion technology, UPS works independent from mains voltage and frequency. By converting the energy AC to DC energy, keeps your batteries constant charge. After converting it back to AC energy and applies filtration process before supply your loads. Efficiency with Active Power Factor Correction (APFC) feature and flexibility with wide voltage/frequency range is available. It provides high-level protection for your data center, control systems and other critical loads.

GENERAL SPECIFICATIONS

- High frequency on-line double conversion technology
- DSP (Digital signal processors)
- Active power factor correction
- Output PF: 0.9
- Wide voltage and frequency range
- Active Harmonic Correction <3%
- Automatic frequency detection
- 50/60Hz frequency range
- Cold start
- Rear panel ventilated design and variable fan speed
- Effective software and hardware protection
- Fast and durable battery charge, 90% in 4 hours
- Adjustable delay start when mains power is restored
- The ability to charge the battery even when it is in the off position.
- Uninterruptible transfer
- Load sensitive intelligent fan control
- Easy fault diagnosis with smart alarm warning system and diagnostic coding
- Advanced battery management
- Configuring settings via LCD screen
- Multi communication: RS232, (standard), USB, RS485/SNMP/Dry contact (optional)

TECHNICAL SPECIFICATIONS

MODEL	CL101
Capacity	1 kVA/900 W
INPUT	
Voltage	208 / 220 / 230 / 240 VAC
Voltage range	110 ~ 300 VAC (@ 50% load); 160 ~ 300 VAC (@ 100% load); ± 5 VAC
Frequency	40 ~ 70 Hz (automatic)
Power factor	≥ 0.99
Bypass voltage range	- 25% ~ + 15% (adjustable)
THDi	$\leq 3\%$
ECO Mode range	208 / 220 / 230 / 240 VAC ($\pm 10\%$)
Genset	Compatible
OUTPUT	
Voltage	208 / 220 / 230 / 240 VAC (Selectable)
Voltage regulation	$\pm 1\%$
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50/60 Hz ± 0.2 Hz (battery mode)
Waveform	Pure sinewave
Power factor	0.9
Voltage THD	$\leq 2\%$ (linear load), $\leq 5\%$ (non-linear load)
Crest factor	3:1
Overload	at 105% ~ 125% load 1 min, at 125% ~ 150% load 30 sec, at > 150% load 300 ms
BATTERY	
DC voltage	36 VDC
Internal battery pack	3x9Ah (12V)
Charge current (max.)	1A (6A long time model)
Battery charge time	Standard model: 90% capacity in 4 hours; XL model: connected to battery pack
SYSTEM FEATURES	
Efficiency	$\geq 90\%$ (Mains mode)
	$\geq 92\%$ (Battery mode)
	$\geq 94\%$ (ECO mode)
Transfer time	Mains mode to battery mode: 0 ms, Inverter mode to bypass mode: 4 ms
Protection	Short circuit, Overload, Battery charge/discharge protection
Display	LCD, LED
Communication	RS232 (standard), USB/SNMP (optional)
Emergency shutdown	Optional
Software	Supports Windows 98/200/2003/XP/Vista/2008/Windows 7/8
Smart alarm system	Standard
Safety	CE LVD
EMC	CE EMC
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, 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, IEC 62040-2, IEC 62040-1, IEC 62040-3
OTHER FEATURES	
Operation temperature	0°C ~ 40°C
Storage temperature	- 25°C ~ 55°C (without battery)
Humidity	0 ~ 90% (non-condensing)
Altitude	≤ 1000 m, derating 1% for each additional 100m
Protection degree	IP 20
Acoustic noise	≤ 45 dB
Dimensions (HxWxD) (mm)	245x144x356
Packaged dimensions (HxWxD) (mm)	316x231x492
Net weight (kg)	13,0
Gross weight (kg)	14,5