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# CL PRO RT

## UNINTERRUPTIBLE POWER SUPPLIES

### 1-3kVA

#### 1 PHASE IN / 1 PHASE OUT



➔ ONLINE DOUBLE CONVERSION

➔ FULL DIGITAL CONTROL

➔ WIDE INPUT VOLTAGE RANGE



PLUG & PLAY



TOWER / RACK



UPS ONLINE



POWER FACTOR



ECO FRIENDLY



## GENERAL SPECIFICATIONS

- Rack/Tower convertible design
- Online double conversion with full digital control
- Built-in lithium battery with more than 2000 times cycle life
- Reliable BMS protection
- 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
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Hot-Swappable battery design
- Cold start
- Intelligent fan speed regulation
- Programmable receptacles optional
- Versatile LCD human-computer interface, 3.5inch touch screen optional
- Multiple communication interface: RS232 (USB/EPO/Dry contact card/ SNMP card optional)
- Multiple protection function: short-circuit, overload, over-heat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- PDU with maintenance bypass switch (Optional)
- IEC 62133 (Cell)/IEC 62619 (Pack)/UN 38.3 (Transportation) certificate

# TECHNICAL SPECIFICATIONS

MODEL	CL PRO 1000RT 1kVA	CL PRO 2000RT 2kVA	CL PRO 3000RT 3kVA
Capacity (VA/W)	1000/1000	2000/2000	3000/3000
<b>INPUT</b>			
Nominal voltage	208/220/230/240 VAC		
Operating voltage range	110~300 VAC (176~264 VAC @ 100% load)		
Power factor	≥ 0.99		
Bypass frequency range	40~70Hz (50/60Hz Auto-Sensing)		
<b>OUTPUT</b>			
Nominal voltage	208/220/230/240 VAC		
Voltage regulation	± 1%		
Power factor	1.0		
Output frequency	Line mode: 46~54Hz or 56~64Hz; Battery mode: (50/60Hz ± 0.1%)		
Crest factor	3:1		
Harmonic distortion	≤ 3% Linear load; ≤ 5% Non linear load		
Transfer time	AC mode to Battery mode: 0ms; Inverter to Bypass: 4ms (Typical)		
Waveform	Pure Sinewave		
<b>EFFICIENCY</b>			
AC Mode	Up to 90%	Up to 91%	Up to 92%
ECO Mode	Up to 95%	Up to 96%	Up to 97%
<b>BATTERY</b>			
Battery type	VRLA (Lead acid maintenance free battery)		
Battery voltage	24 VDC	48 VDC	72 VDC
Battery capacity	7Ah or 9Ah		
Battery quantity	2 pcs	4 pcs	6 pcs
Typical recharge time	S: 4hr (to 90% of full capacity)		
Max. charging current	1A		
<b>MANAGEMENT</b>			
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		
<b>ENVIRONMENTAL</b>			
Operating temperature	0°C~40°C		
Storage temperature	-25°C~55°C		
Humidity range	20~95%RH @ 0°C~40°C (Non condensing)		
Altitude	< 1000m, derating required between 1000 to 3000m		
Noise level	< 50 dBA		
<b>PHYSICAL</b>			
Dimension HxWxD (mm)	86.5x440x325	86.5x440x460	86.5x440x600
Weight (kg)	11,3	19,5	26
<b>STANDARDS</b>			
Safety	IEC/EN 62040-1, IEC/EN 62477-1		
EMC	IEC/EN 62040-2 (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)		