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# CL PRO RT

## UNINTERRUPTIBLE POWER SUPPLIES

### 6-10kVA

#### 1 PHASE IN / 1 PHASE OUT



➔ LITHIUM OR VRLA BATTERY SELECTABLE

➔ WIDE INPUT VOLTAGE RANGE

➔ OPTIONAL DUAL INPUT SOURCE



TOWER / RACK



UPS ONLINE



POWER FACTOR



ECO FRIENDLY



## GENERAL SPECIFICATIONS

- Lithium or VRLA battery selectable
- Wide input voltage range: 110~300Vac
- Dual input source (Optional)
- Generator compatible
- Support customized common battery banks, when UPSs are used in parallel and only for VRLA version (The battery banks should be configured with neutral line)
- 4U Standard version is available with external battery port (Optional)
- Programmable receptacles
- The 3.5 in touchscreen supports both lithium and VRLA battery versions, the three segment LCDs are compatible with VRLA version only
- Maximum charging current up to 15A
- Cold start function (Only for VRLA battery)
- Multiple communication interface: RS232/USB/RS485/EPO/PDU signal/Battery temperature signal/Battery group signal/Dual Intelligent card slot (Mini card slot optional)
- Dual Intelligent card slot for touch screen version (Segment LCD optional)
- Dry contact port optional (4 pins input and 4 pins output)
- Rail (Optional)
- PDU with maintenance bypass switch (Optional)
- Intelligent fan speed regulation
- Low noise design, less than 45dB for 6kVA
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- IEC62619/UL1973/UN 38.3 certified lithium battery pack



# TECHNICAL SPECIFICATIONS

MODEL	CL PRO 106 RT XL 6KVA	CL PRO 106 RT 6KVA	CL PRO 110 RT XL 10KVA	CL PRO 110 RT 10KVA	
Capacity (VA/W)	6000/6000		10000/10000		
<b>INPUT</b>					
Nominal voltage	208/220/230 VAC (Default) / 240				
Operating voltage range	110-300 VAC (110-300 VAC @ 50% load/176-300 VAC @ 100% load)				
Power factor	≥ 0.99				
Input connection	HW terminal (L+N+G)				
THDI	≤ 2%				
Bypass voltage range	Max.voltage: 208/220: +25% (Optional +10%, +15%, +20%)				
	230: +20% (Optional +10%, +15%)				
	240: +15% (Optional +10%)				
	Min.voltage: -45% (Optional -10%, -20%, -30%)				
<b>OUTPUT</b>					
Nominal voltage	208/220/230 VAC (Default) / 240				
Voltage regulation	± 1%				
Power factor	1.0				
Output connection	Programmable: C19*2+C13*3; Non-programmable: HW terminal (L+N+G)				
Output frequency	Online mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Battery mode: 50/60Hz ± 0.1%				
Crest factor	3:1				
Harmonic distortion	< 1% (Full linear load); < 3% (Full nonlinear load)				
Transfer time	AC mode to Batt. mode: 0; Inverter to Bypass: 0				
Waveform	Pure Sinewave				
Overload	Online mode	Load≤110%, last 60min; ≤125%, last 10min; ≤150%, last 1min; >150%, turn to bypass mode immediately			
	Battery mode	Load≤110%, last 10min; ≤125%, last 1min; ≤150%, last 10 second; >150%, 0.5 second shut down			
	Bypass Mode	105% load≤130%, only overload alarm; ≤150%, last 10min; ≤200%, last 1min; >200%, 0.5 second shut down			
<b>EFFICIENCY</b>					
AC Mode	Up to 95.0%		Up to 95.5%		
ECO Mode	Up to 98.8%		Up to 99.0%		
<b>BATTERY</b>					
Battery voltage	VRLA battery	192 (Default)/216/240 VDC	192 VDC (7/9Ah)	192 (Default)/216/240 VDC	192 VDC (9Ah)
	Lithium battery	192	/	192	/
Max. charging current	12A (15A Optional)		1.35A Default (12/15A Optional)	15A	1.35A Default (15A Max.)
	Charging current adapts to the battery type and battery capacity				
<b>MANAGEMENT</b>					
LED Display	Online mode, Battery mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault				
LCD Display	Input voltage, Input frequency, Input current, Output voltage, Output frequency, Output current, Load percentage, Battery voltage, Battery charging/ discharging current, Ambient temperature & Remaining battery backup time, 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	< 45 dBA		< 50 dBA		
<b>PHYSICAL</b>					
Dimension HxWxD (mm)	86.5x440x621.5 (2U)	175x440x621.5 (4U)	86.5x440x621.5 (2U)	175x440x621.5 (4U)	
Weight (kg)	15	57/65	17	67	
<b>STANDARDS</b>					
Safety	EN IEC 62040-1: 2019+A11:2021				
EMC	IEC 62040-2-2016, EN 62040-2-2018 C2				
Performance	IEC 62040-3: 2021, EN IEC 62040-3: 2021				