

# LEON UPS LPRT PRO-3 SERIES

#1 POWER OF UPS



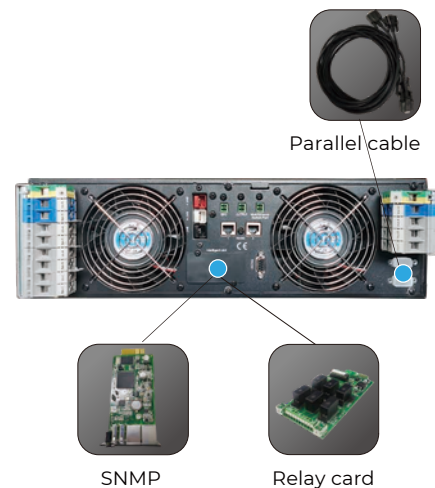
3:3 phase PF 1.0

Power range:10kVA~20kVA



## Features

- LCD support Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery: 30~50pcs is settable
- Maximum charging current up to 20A (Settable)
- Dual input source
- Support 3/3 and 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz Frequency converter mode
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- RS232, RS485, Parallel, Intelligent Slot (SNMP card/Relay card (Optional), BMS (Optional), EPO port, Output port, MAINTAIN-AUXSWS port
- PDU with maintenance bypass switch (Optional)





## Technical Specification

MODEL	LPRT 10K PRO-3	LPRT 15K PRO-3	LPRT 20K PRO-3
Capacity	10kVA/10kW	15kVA/15kW	20kVA/20kW
<b>INPUT</b>			
Nominal voltage	380/400/415Vac (3Ph+N+PE) 220/230/240Vac (L+N+PE)		
Operating voltage range	208~478Vac		
Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)		
Power factor	≥0.99		
Bypass voltage range	Max.voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)		
Frequency protection range	50/60Hz±10%		
Harmonic distortion (THDi)	≤3% Linear load		
<b>OUTPUT</b>			
Output voltage	380/400/415Vac (3Ph+N+PE) 220/230/240Vac (L+N+PE)		
Voltage regulation	±1%		
Power factor	1.0		
Output frequency	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)		
Transfer time	0ms		
Output waveform	Pure Sinewave		
Crest factor	3:1		
Harmonic distortion (THDv)	≤2% Linear load ≤5% Non linear load		
Overload	Line mode: Load≤110%: last 60min; ≤125%: last 10min; ≤150%: last 1min; ≥150% turn to bypass mode immediately Bat. mode: Load≤110%: last 10min; ≤125%: last 1min; ≤150%: last 5s; ≥150% shut down UPS immediately Bypass mode: Breaker (Load < 125%, long-term operation)		
<b>EFFICIENCY</b>			
Efficiency BATTERY	Up to 94.5%		Up to 95%
Battery voltage			
Charge current	±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs settable)		
<b>PHYSICAL</b>			
Dimension W×D×H	18A Max.		20A Max.
Net weight	443×580×131mm (3U)		
<b>ENVIRONMENTAL</b>			
Operating temperature	29kg	31kg	32kg
Storage temperature	0°C~40°C		
Humidity range	-25°C~55°C		
Altitude Noise level	0~95% (Non-condensing)		
<b>STANDARDS</b>			
Safety EMC	<55dB		<58dB
	IEC/EN 62040-1, IEC/EN 62477-1		
	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)		

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



## BP 10-20kVA battery pack specification

MODEL	LPRT BP 240V
BATTERY SYSTEM	
Battery type	VRLA (Lead acid maintenance free battery)
Typical battery recharging time	6~8 hours (To 90% of full capacity)
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature
System voltage	±240Vdc
Battery quantity	1×40 PCS
Capacity	7Ah/9Ah (12V)
PHYSICAL	
Dimension W×D×H	
Net weight	482× 861.5×175mm (4U)
ENVIRONMENT	138kg/154kg
Safety	
Operating environment	CE
Relative humidity	0°C~40°C
Noise level	0~95% (Non condensing)
1. Specifications are subject to change without prior notice	<40dB at 1 Meter

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3. Remark: HPM33 BR40240N "HPM" means series; "BR" means Battery Rack; "40" means battery number inside the Rack;

"240" means the battery system voltage; "N" means battery with neutral connection