

CRT+500R

Online double conversion, 6kVA - 10kVA

Main applications include small to medium sized data centres, IT facilities, telecoms and networking

Features snapshot

- Online double conversion topology
- Intelligent monitoring software
- Server shut down in the event of a mains fail
- High efficiency up to 98%
- 0.9 output power factor
- Smart LCD display
- Expandable runtime
- Parallel capacity for N+1
- User replaceable, hot swappable batteries



When positioned in rackmount form, the CRT+500R has a capacity of 6kVA/5.4kW contained within 3U and 10kVA/9kW contained within 5U, which includes internal batteries to provide standard runtime.

Its online double conversion topology completely isolates the output voltage and frequency supplied to the users valuable load from incoming mains power anomalies. In addition, sophisticated ECO functions enable the CRT+500R to achieve an industry leading 98% efficiency.

For a more resilient solution, an additional UPS unit can also be connected in parallel to share the critical load and provide N+1 redundancy.

THE POWER AUTHORITY



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 **CertaUPS+**

MODELS	CRT+500R-060-B	CRT+500R-060-C	CRT+500R-100-B	CRT+500R-100-C
Power (VA) max	6000		10000	
Power (W) max	5400		9000	
INPUT				
Input Voltage Window	120VAC-276VAC			
THDi	<5%			
Input Power Factor	≥0.99			
Input Frequency Range	45-55Hz / 54-66Hz			
Generator Set Sizing	1.3 x UPS Rating Power			
OUTPUT				
Output Voltage				
Waveform	Pure Sinewave			
Nominal voltage	208VAC*/220VAC/230VAC/240VAC			
Voltage regulation	±1%			
Transient recovery	100ms (IEC 62040-3 non-linear load)			
Voltage distortion	<2% THD, linear load		<5% THD, non-linear load	
Output Frequency				
Synchronisation range	45-55Hz / 54-66Hz**			
Slew rate	1Hz/s			
Battery mode	(50/60±0.1)Hz**			
Transfer Time				
Inverter Mode to Battery Mode	0ms			
Full Load Efficiency				
ECO mode	>96%		>98%	
Overload Capability (normal operation)	130% for 2 minutes; 150% for 30 seconds; >150% 1 second			
Overload Capability (battery mode)	130% for 10 seconds; >130% for 1 second			
Crest Ratio	3:1			
Parallel	1+1 for capacity or redundancy			
BATTERY				
DC Voltage	180VDC		240VDC	
Back-up time (full load)	>2.5 minutes	Depends on the capacity of external batteries	>3.5 minutes	Depends on the capacity of external batteries
Charging current (max)	1.0A	8.0A	1.7A	8.0A
MECHANICAL				
Dimensions W x D x H (mm)	438 x 698 x 129 (3U)		438 x 704 x 215 (5U)	
Weight (Kg)	48	19	83	26
AC Outlets	2 x IEC C13 + 1 x IEC C19 + Terminal	2 x IEC C13 + 2 x IEC C19 + Terminal	4 x IEC C19 + Terminal	4 x IEC C13 + 2 x IEC C19 + Terminal

*Derate to 90% with 208VAC output voltage. **Derate to 80% during Frequency Converter Mode.

Full technical specification and product information can be found at www.pcl-ups.com

