Cyber Power



PR500LCDRT1U Smart App Sinewave UPS

Cost-effective feature-rich power protection for networking, servers and telecommunications equipment.

The CyberPower Smart App Sinewave PR500LCDRT1U uninterruptible power supply (UPS) with LCD panel and pure sine wave output is Active PFC compatible for safeguarding mission-critical servers, telecom equipment, and VoIP and internetworking hardware that require seamless pure sine wave power.

This UPS unit incorporates microprocessor -based digital control and includes PowerPanel® Business Edition Software providing the user unsurpassed flexibility and control.

This UPS system is ENERGY STAR® qualified with patented GreenPower UPS™ Bypass circuitry to save on energy costs by reducing energy consumption and heat buildup.

A Three-Year Warranty ensures that this UPS has passed our highest quality standards in design, assembly, material or workmanship and further protection is offered by a \$400,000 Connected Equipment Guarantee.

Typical Applications

- Servers
- Workstations
- Network Devices
- Telecom Equipment

Features

- 500VA / 400W
- Line-Interactive Topology
- Full AVR Buck/Boost
- GreenPower UPS™
- 1U Rack Mount/Tower Convertible
- Multifunction LCD Panel
- SNMP/HTTP Remote Management
- 7 Outlets / USB, Serial, and EPO Ports
- EMI/RFI Filters
- PowerPanel® Business Software
- 3-Year Warranty

PR500LCDRT1U Smart App Sinewave UPS Cost-effective feature-rich power protection for networking, servers and telecommunications equipment.

UPS Topology Energy Saving GreenPower UPS™ Bypass Technology ENERGY STAR® Qualified Active PFC Compatible Yes Active PFC Compatible Ves INPUT Voltage Nominal 120V Frequency 57Hz - 63Hz ± 1% Input Voltage Range 80Vac - 150Vac Plug Type NEMA 5-15P Plug Style Cord Length 10' OUTPUT VA 500 Watts 400 Automatic Voltage Regulation Automatic Voltage Regulation Boost 1 +30%-Boost 2 +14% / Buck -12% On Battery Voltage 120Vac ± 5% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6 V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Surge PROTECTION & FILTERING Surge Suppression 1,030 Joules EMI/RFI Filtration Yes	GENERAL	
ENERGY STAR* Qualified Yes Active PFC Compatible Yes INPUT Voltage Nominal 120V Frequency 57Hz - 63Hz ± 1% Input Voltage Range 80Vac - 150Vac Plug Type NEMA 5-15P Plug Style Right Angle, 45 Degree Offset Right Cord Length 10' OUTPUT VA 500 Watts 400 Automatic Voltage Regulation Boost 1 + 30%-Boost 2 + 14% / Buck - 12% On Battery Voltage 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	UPS Topology	Line-Interactive
Nominal 120V	Energy Saving	GreenPower UPS™ Bypass Technology
Nominal 120V	ENERGY STAR® Qualified	Yes
Voltage Nominal 120V Frequency 57Hz - 63Hz ± 1% Input Voltage Range 80Vac - 150Vac Plug Type NEMA 5-15P Plug Style Right Angle, 45 Degree Offset Right Cord Length 10' OUTPUT VA 500 Watts 400 Automatic Voltage Regulation Boost 1 +30%-Boost 2 +14% / Buck -12% On Battery Voltage 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Active PFC Compatible	Yes
Frequency 57Hz - 63Hz ± 1% Input Voltage Range 80Vac - 150Vac Plug Type NEMA 5-15P Plug Style Right Angle, 45 Degree Offset Right Cord Length 10' OUTPUT VA 500 Watts 400 Automatic Voltage Regulation Boost 1 +30%-Boost 2 +14% / Buck -12% On Battery Voltage 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	INPUT	
Input Voltage Range 80Vac - 150Vac Plug Type NEMA 5-15P Plug Style Right Angle, 45 Degree Offset Right Cord Length 10' OUTPUT VA 500 Watts 400 Automatic Voltage Regulation 120Vac ± 5% On Battery Voltage 120Vac ± 5% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Voltage	Nominal 120V
Plug Type	Frequency	57Hz - 63Hz ± 1%
Plug Style Right Angle, 45 Degree Offset Right Cord Length 10' OUTPUT VA 500 Watts 400 Automatic Voltage Regulation 120 Vac ± 5% On Battery Voltage 120 Vac ± 5% On Battery Waveform 5ine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Input Voltage Range	80Vac - 150Vac
Cord Length OUTPUT VA 500 Watts 400 Automatic Voltage Regulation 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Plug Type	NEMA 5-15P
OUTPUT VA 500 Watts 400 Automatic Voltage Regulation Boost 1 +30%-Boost 2 +14% / Buck -12% On Battery Voltage 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Plug Style	Right Angle, 45 Degree Offset Right
Watts 400 Automatic Voltage Regulation Boost 1 +30%-Boost 2 +14% / Buck -12% On Battery Voltage 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Cord Length	10'
Watts 400 Automatic Voltage Regulation Boost 1 +30%-Boost 2 +14% / Buck -12% On Battery Voltage 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	OUTPUT	
Automatic Voltage Regulation Doubletry Voltage On Battery Frequency On Battery Waveform On Battery Waveform On Battery Waveform Outlet Type NEMA 5-15R Outlets - Total Outlets - Critical Load Outlets - Battery & Surge Protected Outlets - Surge-Only Protected Rated Power Factor Overload Protection Internal circuitry limiting / circuit breaker Transfer Time Doms BATTERY Runtime at Half Load (min) Rattery Type Sealed Lead-Acid Battery Size Hot-Swappable Battery Quantity Ves Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	VA	500
Automatic Voltage Regulation -12% On Battery Voltage 120Vac ± 5% On Battery Frequency 60Hz ± 1% On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Pyes Battery Quantity 2 User Replaceable Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Watts	400
On Battery Frequency On Battery Waveform Sine Wave Outlet Type NEMA 5-15R Outlets - Total Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Automatic Voltage Regulation	
On Battery Waveform Outlet Type NEMA 5-15R Outlets - Total Outlets - Critical Load Outlets - Battery & Surge Protected Outlets - Surge-Only Protected Rated Power Factor Overload Protection Internal circuitry limiting / circuit breaker Transfer Time Ioms BATTERY Runtime at Half Load (min) Rattery Type Sealed Lead-Acid Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Pyes Battery Quantity 2 User Replaceable Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	On Battery Voltage	120Vac ± 5%
Outlet Type	On Battery Frequency	60Hz ± 1%
Outlets - Total 7 Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	On Battery Waveform	Sine Wave
Outlets - Critical Load 3 Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Outlet Type	NEMA 5-15R
Outlets - Battery & Surge Protected 6 Outlets - Surge-Only Protected 1 Rated Power Factor 0.8 Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Outlets - Total	7
Outlets - Surge-Only Protected Rated Power Factor Overload Protection Transfer Time 10ms BATTERY Runtime at Half Load (min) Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Battery Quantity 2 User Replaceable Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Outlets - Critical Load	3
Rated Power Factor Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Outlets - Battery & Surge Protected	6
Overload Protection Internal circuitry limiting / circuit breaker Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Outlets - Surge-Only Protected	1
Transfer Time 10ms BATTERY Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Rated Power Factor	0.8
Runtime at Half Load (min) 12 Runtime at Full Load (min) 3 Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Overload Protection	
Runtime at Half Load (min) Runtime at Full Load (min) Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Transfer Time	10ms
Runtime at Full Load (min) Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	BATTERY	
Battery Type Sealed Lead-Acid Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Runtime at Half Load (min)	12
Battery Size 6V/9AH Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Runtime at Full Load (min)	3
Hot-Swappable Yes Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Battery Type	Sealed Lead-Acid
Battery Quantity 2 User Replaceable Yes Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Battery Size	6V/9AH
User Replaceable Typical Recharge Time SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Hot-Swappable	Yes
Typical Recharge Time Less than 6 Hours (90% charged) SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	Battery Quantity	2
SURGE PROTECTION & FILTERING Surge Suppression 1,030 Joules	User Replaceable	Yes
Surge Suppression 1,030 Joules	Typical Recharge Time	Less than 6 Hours (90% charged)
	SURGE PROTECTION & FILTERING	
EMI/RFI Filtration Yes	Surge Suppression	1,030 Joules
-	EMI/RFI Filtration	Yes

MANAGEMENT & COMMUNICATIONS	
Multifunction LCD Panel	Load/Current Level, Runtime, Battery Level, Temperature (F & C), Battery In Use, Input Voltage, Output Voltage, Output Frequency, Overload, Wiring Fault, Battery Shutdown Voltage, Static Frequency Tolerance, Slew Rate, Silent Mode, Normal Mode
HID Compliant USB Port	Yes
Serial Port	Yes
Emergency Power Off (EPO) Port	Yes
Contact Closure	No
Management Cable	USB Cable, Serial Cable, EPO Cable
LED Indicators	Power On, Wiring Fault
Audible Alarms	On Battery, Low Battery, Overload
Software	PowerPanel® Business Edition
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD202 or RMCARD203
PHYSICAL	
Rack Size	1U
Form Factor	Rack/Tower
Dimensions (WxHxD) (in.)	17.25 x 1.75 x 9.5
Weight (lbs.)	19.8
Shipping Dimensions (WxHxD) (in.)	20.8 x 6.2 x 13.2
Shipping Weight (lbs.)	25.3
ENVIRONMENTAL	
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C
Operating Humidity	0% - 95% non-condensing
Storage Temperature	5°F to 113°F / -15°C to 45 °C
Maximum Operating Elevation	10,000 ft / 3,000 m
Maximum Storage Elevation	50,000 ft / 15,000 m
AC Mode Thermal Dissipation	31 BTU/Hr
CERTIFICATIONS	
Safety	UL1778, CSA C22.2 NO.107.3-05, FCC DOC Class A
Environmental	RoHS Compliant
WARRANTY	
Product Warranty	3 Years Limited
Connected Equipment Guarantee	Lifetime
CEG Amount	\$400,000