RACKPOWER

RackPower
UPS Range

Systems and accessories.

rackpower.co.nz

Contents

RackPower UPS

RackPower UPS systems

Engineered to protect critical infrastructure & equipment.

RackPower UPS systems are designed for environments where power quality, efficiency and response times matter. We focus on delivering premium-grade UPS performance at a mid-market price point, without the overheads of global multinational brands.

As a New Zealand owned company, we design and supply UPS solutions that reflect local requirements, faster decision-making and direct technical support. The result is a UPS range that delivers measurable performance advantages where it counts: usable power, efficiency, battery life and speed of support.

- **Reliable power protection**
- **Ensure business continuity**
- **2 year warranty on all UPS systems***

*Terms and conditions apply

Why RackPower

More usable power

RackPower UPS systems operate at a true output power factor of 1.0. This means a 3kVA RackPower UPS delivers the full 3kW of usable power. Many alternatives rated at 0.9 or lower deliver less real output for the same headline kVA rating.

Higher operating efficiency

With online efficiencies up to 96 percent, RackPower UPS systems waste less energy as heat. This reduces running costs, lowers cooling demand and supports higher rack densities compared with units operating in the low 90s or high 80s.

Local ownership and support

RackPower is New Zealand owned and operated. Decisions are made locally, support is direct and specifications are not driven by global product compromises.

Fast, accurate response

UPS quotes and specifications are typically turned around in under three hours. Custom or non-standard UPS solutions are usually delivered within one to two working days. No overseas delays, no ticket queues.

Long-life battery design

RackPower installs 10-year design life 12V 9Ah lead-acid batteries locally. Many suppliers still rely on shorter-life battery options. Longer battery life reduces replacement cycles, site visits and total cost of ownership.

RackPower UPS

Not all UPSs are the same

UPS systems can look similar on a datasheet, but the underlying design choices have a direct impact on protection, capacity and operating cost.

Line Interactive UPS VS Online UPS

Line Interactive UPS

Suitable for home offices and non-critical equipment.

Line Interactive UPS systems normally run equipment directly from mains power and switch to battery during an outage. While suitable for basic office or non-critical loads, they offer limited protection from voltage variation, noise and waveform distortion.

Online Double Conversion UPS

Suitable for mission-critical environments.

An Online UPS continuously converts incoming AC power to DC and back to clean AC output. This provides constant isolation from the mains supply. Voltage fluctuations, frequency variation and electrical noise are corrected before reaching connected equipment. RackPower UPS systems are Online Double Conversion designs, suited to IT, industrial, medical, and communications environments.

Power factor

1.0 VS 0.9 or less

A UPS with a 0.9 power factor can only deliver 90 percent of its rated kVA as usable power. For example a 3kVa UPS at 0.9 power factor can only deliver 2.7kW of usable power.

RackPower UPS systems operate at a power factor of 1.0. A 3kVA unit delivers the full 3kW. This allows:

- Smaller UPS selection for the same load
- Better use of rack space
- Reduced oversizing and capital cost

Online power efficiency

96 percent VS low 90s or high 80s

Efficiency directly affects operating cost and thermal performance.

A UPS operating at 88–92 percent efficiency converts more input energy into heat. This increases power bills and places additional load on room cooling systems.

RackPower Online UPS systems operate at up to 96 percent efficiency in online/normal mode. This results in:

- Lower ongoing energy cost
- Reduced heat output
- Improved reliability in high-density installations

Choosing the right size

The right UPS size protects your equipment, maximises runtime and avoids unnecessary expense. Correct sizing ensures your system performs reliably when it matters most.

Step 1: Calculate your equipment load

1. List All Equipment

Include all devices that require backup power, such as servers, network switches and routers, workstations, security systems and storage devices.

2. Find Power Ratings

Check each device's power rating, typically listed in Watts (W) or Volt-Amps (VA)

If only Amps (A) are listed, convert using:
VA = Volts × Amps

3. Add a Safety Margin

Add 30% to your total VA to allow for future expansion and to prevent overloading.

Step 2: Determine runtime requirements

Decide how long you need the UPS to keep your equipment running during an outage:

5–10 minutes: Enough time for safe shutdown

15–30 minutes: For short outages or generator startup

30+ minutes: For extended operation

Runtime depends on battery capacity and load, so this will influence your final UPS selection.

Example calculation

Let's say you're backing up the following equipment:

Server: **600W**
Firewall: **250W**
PoE Switch: **500W**
Core/distribution switch: **250W**
Router: **150W**
NVR: **300W**

Total Load = 2050W

Convert Watts to VA
(Power factor = 1.0):
2050W = 2050VA.

Add 30% buffer: 2050VA x 1.3 = **2665VA**

Recommended UPS Size for this VA load: 3000 VA (or 3kVA)

600VA
Line Interactive UPS

Power Range
600VA | 360W

Operation
Line interactive with AVR

Applications
Home office, workstations, security and CCTV, point of sale systems and home theatre.

Characteristics
- 2 × 3-pin outlets AU/NZ
- Automatic voltage regulation (AVR)
- Silent operation
- Overload and short circuit protection
- Battery low voltage protection
- Wide input voltage range
- Auto restarts when AC recovers
- Automatic off-line charging
- LED display
- USB communication with web software
- Maintenance-free battery
- PWM and advanced MOSFET components for stable performance

Model	UPSL0600
Capacity	600VA/360W
Input voltage	220/230/240Vac
Input voltage range	145–290Vac
Frequency range	45–65Hz
Output voltage	220/230/240Vac
Output voltage range	200–255Vac
Output frequency	60 ±0.5Hz or 50 ±0.5Hz (Batt. mode)
Output waveform	PWM (Batt. mode)
Output transfer time	Typical 2–6ms, 10ms max
Battery capacity	12V/9AH
Battery backup time	13 minutes (50% load)
Battery quantity	1pc
Battery charging period	4–6 hours to recover to 90% capacity
Full protection	Low voltage, overload and short circuit protection
Net weight	4.3kg
Dimensions (WxDxH)mm	300 × 95 × 140
Operating environment	Temperature 0°C–40°C, Humidity 20%–90%
LCD Display	Input voltage, output voltage, load level, battery capacity, UPS fault
Communication	USB communication with web management software
Compliance	EN 62040-1: 2008+A1:2013, Low Voltage Directive 2014 / 35 / EU, CE

Specs may change as products are updated and innovated.

Line Interactive UPS

1200VA
Line Interactive UPS

Power Range
1200VA | 720W

Operation
Line interactive with AVR

Applications
Home office, workstations, security and CCTV, point of sale systems and home theatre.

Characteristics
- 4 × 3-pin outlets AU/NZ
- Automatic voltage regulation (AVR)
- Silent operation
- Overload and short circuit protection
- Battery low voltage protection
- Wide input voltage range
- Auto restarts when AC recovers
- Automatic off-line charging
- LED display
- USB communication with web software
- Maintenance-free battery
- PWM and advanced MOSFET components for stable performance

Model	UPSL1200
Capacity	1200VA/720W
Input voltage	220/230/240Vac
Input voltage range	145–290Vac
Frequency range	45–65Hz
Output voltage	220/230/240Vac
Output voltage range	200–255Vac
Output frequency	60 ±0.5Hz or 50 ±0.5Hz (Auto sensing)
Output waveform	PWM (Batt. mode)
Output transfer time	Typical 2–6ms, 10ms max
Battery capacity	12V/9AH
Battery backup time	13 minutes (50% load)
Battery quantity	2pcs
Battery charging period	4–6 hours to recover to 90% capacity
Full protection	Low voltage, overload and short circuit protection
Net weight	9.5kg
Dimensions (WxDxH)mm	330 × 122 × 192
Operating environment	Temperature 0°C–40°C, Humidity 20%–90%
Noise level	≤40dB (1m)
LCD Display	Input voltage, output voltage, load level, battery capacity, UPS fault
Communication	USB communication with web management software
Compliance	EN 62040-1: 2008+A1:2013, Low Voltage Directive 2014 / 35 / EU, CE

Specs may change as products are updated and innovated.

1-3kVA
Single Phase Rack UPS

Power Range
1~3kVA

Operation
1P/1P, online double conversion

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- High efficiency up to 96%
- Output PF=1, high load adaptability
- Wide input voltage range of 110~300Vac
- 10-year design life batteries

Model	USS001BR	USS002BR	USS003BR
Rate Power	1kVA/1kW	2kVA/2kW	3kVA/3kW
Cold start	Default output 50/60Hz		
Input voltage range	110~300VAC; 100% load@176VAC~276VAC, 100%~50% power derating @ 110VAC~176VAC, 50% load @ 276VAC~300VAC		
Input power factor	≥0.99		
Frequency range	50/60±5Hz (default), ±3Hz/±10Hz (settable)		
Input Socket	IEC input 10A	IEC input 16A	IEC input 16A
Output Socket	8 x IEC C13 10A	8 x IEC C13 16A	8 x IEC C13 16A 2 x IEC C19 16A
Output power factor	1.0		
Output - Rate voltage	220/230/240VAC, 200/208VAC (PF=0.9)		
Output - Load response	≤5% (0% - 100% -0% step load)		
Output - Recovery time	≤40ms (0% - 100% -0% step load)		
Output THDu	≤2%, Linear load; ≤ 5% non-linear load according to IEC62040-3		
Transfer time Main to BAT	0		
Transfer time INV to BYP	4ms		
Efficiency (normal mode)	Max 96%		
Noise (1 meter)	43dB@<60% load, 47dB@>60% load	<50dB@<60% load, <55dB@>60% load	<50dB@<60% load, <55dB@>60% load
Overload - Normal	102%~110%: 30mins, 110%~125%: 10mins, 125%~150%: 30 seconds		
Overload - Battery mode	102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%: 5 seconds		
Overload - Bypass mode	<130%: long time, 130%~150%: 10mins, 150%~180%: 5 seconds		
Battery – Type	12VDC/9Ah	12VDC/9Ah	12VDC/9Ah
Battery - Quantity	3	6	6
Battery – Max charging	1A	1A	1A
Battery – Rate voltage	36VDC	72VDC	72VDC
Standard	EPO, RS232		
Option	SNMP card, AS400 Dry Contact		
Dimensions (WxDxH)mm	440x440x86	440x580x86	440x580x86
Weight (kg)	19	27.5	28
Compliance	EN IEC 62040-1:2019, EN IEC 62040-2:2018, EN IEC 61000-3:2019		

Specs may change as products are updated and innovated.

1-3kVA
Single Phase Tower UPS

Power Range
1~3kVA

Operation
1P/1P, online double conversion

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- High efficiency up to 96%
- Output PF=1, high load adaptability
- Wide input voltage range of 110~300Vac
- 10-year design life batteries

Model	USS001B	USS002B	USS003B
Rate Power	1kVA/1kW	2kVA/2kW	3kVA/3kW
Cold start	Default output 50/60Hz		
Input voltage range	110~300VAC; 100% load @ 176 VAC~276 VAC, 100%~50% power derating @ 110VAC~176VAC, 50% load @ 276VAC~300VAC		
Input power factor	≥0.99		
Frequency range	50/60±5Hz (default), ±3Hz/±10Hz (settable)		
Input Socket	IEC input 10A	IEC input 16A	IEC input 16A
Output Socket	4 x IEC C13 10A	6 x IEC C13 16A	6 x IEC C13 16A
Output power factor	1.0		
Output - Rate voltage	220/230/240VAC, 200/208VAC (PF=0.9)		
Output - Load response	≤5% (0% - 100% -0%)		
Output - Recovery Time	≤40ms (0% - 100% -0%)		
Output THDu	≤2% , Linear load; ≤ 5% non-linear load according to IEC62040-3		
Transfer time Main to BAT	0		
Transfer time INV to BYP	4ms		
Crest factor	3:1		
Efficiency (normal mode)	Max 96%		
Noise (1 meter)	43dB@<60%load, 47dB@>60%load	<50dB@<60%load, <55dB@>60%load	<50dB@<60%load, <55dB@>60%load
Overload - Normal	102%~110%: 30mins, 110%~125%: 10mins, 125%~150%: 30 seconds		
Overload - Battery mode	102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%: 5 seconds		
Overload - Bypass mode	<130%: long time, 130%~150%: 10mins, 150%~180%: 5 seconds		
Battery – Type	12VDC/9Ah	12VDC/9Ah	12VDC/9Ah
Battery - Quantity	3	6	8
Battery – Max charging	1A	1A	1A
Battery – Rate voltage	36VDC	72VDC	96VDC
Standard	EPO, RS232		
Option	SNMP card, AS400 Dry Contact		
Dimensions (WxDxH)mm	144x355x226	190x400x328	190x400x328
Weight (kg)	10.5	20.5	25
Compliance	EN IEC 62040-1:2019, EN IEC 62040-2:2018, EN IEC 61000-3:2019		

Specs may change as products are updated and innovated.

6-10kVA
Single Phase Rack UPS

Power Range
6-10kVA

Operation
1P/1P, online double conversion

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- Intelligent battery management
- 3-level topology, high performance and efficiency
- Online double conversion, full digital control
- Output PF=1, high load adaptability
- Wide range of input voltage tolerance
- Adapt to half-wave load
- Auto fault waveform recording
- Self-aging function to save test energy
- 10kW in 2U, high power density

Model	USS006BR	USS010BR
Rate Power	6kVA/6kW	10kVA/10kW
Cold start	Default output 50/60Hz	
Input voltage range	110~288VAC; 100% load@>176VAC; 90% load@>154VAC; 75% load@>132VAC; 50% load@>110VAC	
Input power factor	≥0.99	
Frequency range	40-70Hz	
Output power factor	1.0	
Output - Rate voltage	220/230/240VAC, 200/208VAC (PF=0.9)	
Output - Load response	≤5% (0% - 100% -0%)	
Output - Recovery time	≤40ms (0% - 100% -0%)	
Output THDu	≤1%, linear load; ≤ 5%, non-linear load according to IEC62040-3	
Transfer time - Main to BAT	0ms	
Transfer time - INV to BYP	0ms	
Crest factor	3:1	
Battery – Type	12VDC/9Ah	12VDC/9Ah
Battery – Quantity	16	16
Battery – Rate voltage	192VDC (default), settable	
Battery – Max charging	1A	1A
Efficiency – normal mode	Max 95%	
Noise (1 meter)	<58dB	
Overload - Normal mode	105%~110%: 10mins, 111%~125%: 1 min, 126%~150%: 30 seconds	
Overload - ECO mode	<125%: long time, 126%~130%: 5mins, 131%~150%: 1min, >150%: 200ms	
Communication	RS232, EPO, RS485	
Option	SNMP card, AS400 Dry Contact, Parallel Kit	
Dimensions (WxDxH)mm	440x660x172	440x660x172
Weight (kg)	62.5	63
Compliance	EN IEC 62040-1:2019, EN IEC 62040-2:2018, EN IEC 61000-3:2019	

Specs may change as products are updated and innovated.

6-10kVA
Single Phase Tower UPS

Power Range
6-10kVA

Operation
1P/1P, online double conversion

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- Intelligent battery management
- 3-level topology, high performance and efficiency
- Online double conversion, full digital control
- Output PF=1, high load adaptability
- Wide range of input voltage tolerance
- Adapt to half-wave load
- Auto fault waveform recording
- Self-aging function to save test energy

Model	USS006B	USS010B
Rate Power	6kVA/6kW	10kVA/10kW
Cold start	Default output 50/60Hz	
Input voltage range	110~288VAC (220/230/240VAC); 176VAC~288VAC, full load; 176~110 VAC, power derate from 100% to 50%	
Input power factor	≥0.99	
Frequency range	40-70Hz	
Output frequency	50/60Hz, self adaptation	
Output power factor	1	
Rate output	220/230/240VAC	
Load regulation	±1%	
Output THDu	≤1%THD, linear load; ≤5%THD, non-linear load	
Transfer time - main to BAT	0ms	
Transfer time - INV to BYP	0ms	
Efficiency - normal mode	Max 95%	
Efficiency - ECO mode	98%	
Noise (1 meter)	58dB	
Overload (normal mode)	110%: 10mins; 125%: 1min; 150%: 30 seconds	
Battery – Type	12VDC/9Ah	12VDC/9Ah
Battery - Quantity	16	16
Battery – Max charging	1A	1A
Battery – Rate voltage	Default 192VDC, settable	
Crest	3:1	
Display	LED+LCD	
Standard	RS232, EPO, RS485, Internal Maintenance Bypass	
Option	SNMP card, AS400 Dry Contact, Parallel Kit	
Dimensions (WxDxH)mm	190x605x705	190x605x705
Weight (kg)	56	60
Compliance	EN IEC 62040-1:2019, EN IEC 62040-2:2018, EN IEC 61000-3:2019	

Specs may change as products are updated and innovated.

10-20kVA 3/1
Single Phase Rack UPS

Power Range
10-20kVA

Operation
Three phase in, single phase out,
Online Double Conversion.

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- Intelligent battery management
- 3-level topology, high performance and efficiency
- Online double conversion, full digital control
- Output PF=1, high load adaptability
- Wide range of input voltage tolerance
- Adapt to half-wave load
- Auto fault waveform recording
- Self-aging function to save test energy

Model	UTS010LR	UTS015LR	UTS020LR
Rate Power	10kVA	15kVA	20kVA
Cold start	Default output 50/60Hz		
Input voltage range	190~499VAC(L-L)		
Input power factor	≥0.99		
Frequency range	40-70Hz		
Output frequency	50/60Hz, self adaptation		
Output power factor	1		
Rate output	220/230/240VAC		
Load regulation	±1%		
Output THDu	≤1%, Linear load; ≤3%, non-linear load according to IEC62040-3		
Transfer time - INV to BYP	0ms		
Efficiency - normal mode	Max 95%		
Efficiency - ECO mode	98%		
Noise (1 meter)	<55dB	<62dB	<62dB
Overload (normal mode)	110%: 10mins; 125%: 1min; 150%: 30 seconds		
Battery – Type	External batteries, 16-24 settable		
Battery - Quantity			
Battery – Max charging	5A		
Battery – Rate voltage	Default 192VDC, settable		
Crest factor	3:1		
Standard	RS232, RS485, EPO		
Option	AS400, SNMP card, Parallel kit, USB, 12A charger, Air filter, Single Input kit		
Dimensions (WxDxH)mm	440x730x173(4U)		
Weight (kg)	30		
Compliance	EN IEC 62040-1:2019, EN IEC 62040-2:2018		

Specs may change as products are updated and innovated.

10-20kVA 3/1
Single Phase Tower UPS

Power Range
10-20kVA

Operation
Three phase in, single phase out,
Online Double Conversion.

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- Intelligent battery management.
- 3-level topology, high performance and efficiency
- Online double conversion, full digital control
- Output PF=1, high load adaptability
- Wide range of input voltage tolerance
- Adapt to half-wave load
- Auto fault waveform recording
- Self-aging function to save test energy

Model	UTS010L	UTS015L	UTS020L
Rate Power	10kVA	15kVA	20kVA
Cold start	Default output 50/60Hz		
Input voltage range	190~499VAC(L-L)		
Input power factor	≥0.99		
Frequency range	40-70Hz		
Output frequency	50/60Hz, self adaptation		
Output power factor	1		
Rate output	220/230/240VAC		
Load regulation	±1%		
Output THDu	≤1%,Linear load ; ≤3%, non-linear load according to IEC62040-3		
Transfer time-INV to BYP	0ms		
Efficiency - normal mode	Max 95%		
Efficiency - ECO mode	98%		
Noise (1 meter)	<55dB	<62dB	<62dB
Overload (normal mode)	110%: 10mins; 125%: 1min; 150%: 30 seconds		
Battery – Type	External batteries, 16-24 settable		
Battery - Quantity			
Battery – Max charging	5A		
Battery – Rate voltage	Default 192VDC, settable		
Crest factor	3:1		
Standard	RS232, EPO, RS485, Internal Maintenance Bypass		
Option	AS400, SNMP card, Parallel kit, USB, 12A charger, Air filter, Single Input kit, Maintenance bypass kit		
Dimensions (WxDxH)mm	190x564x500		
Weight (kg)	30		
Compliance	EN IEC 62040-1:2019, EN IEC 62040-2:2018		

Specs may change as products are updated and innovated.

10-30kVA
Three Phase Rack UPS

Power Range
10-30kVA

Operation
Three phase in, three phase out,
Online Double Conversion.

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- Mounted in 19 inch rack, or install as tower UPS
- 7 inch touch LCD with IoT functions
- Flexible configuration as 3/3, 3/1, 1/1
- High power density, small volume, 30kW in 3U
- High reliability and environment adaptability

Model	TT010ELR	TT020ELR	TT030ELR
Rate power	10kVA/10kW	20kVA/20kW	30kVA/30kW
Input	3P+N+PE		
Rate Voltage	380/400/415VAC (L-L)		
Voltage range	"304~478VAC(L-L) Full load; 304~228VAC (L-L) Power derate from 100% to 50%		
Freq range	40~70Hz		
Rate Voltage	±120VDC	±240VDC	
Charging capacity	50%*Pout		
Rate Voltage	380/400/415VAC (L-L)		
Rate frequency	50/60Hz		
Output PF	1		
Overload	110%, 1 hour; 125%, 10 mins; 150%, 1 min		
Crest factor	3:1		
Efficiency-normal mode	Up to 97%		
Certification- Safety	IEC62040-1, IEC60950-1		
Certification- EMC	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)		
Certification- PERF	IEC62040-3		
IP degree	IP20		
Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load		
Operation temperature	0-40 °C		
Humidity	0-95%(non condensing)		
Configuration	USB, RS232, RS485, Dry contact, Cold start, Ethernet port		
Option	Air filter, SNMP card, AS400 card, Parallel kit		
Dimensions (WxDxH)mm	400x803x130		
Net Weight (kg)	21.4	22.4	22.7

Specs may change as products are updated and innovated.

10-60kVA
Three Phase Tower UPS

Power Range
10-60kVA

Operation
Three phase in, three phase out,
Online Double Conversion.

Applications
Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy and more.

Characteristics
- Intelligent battery management.
- 3-level topology, high performance and efficiency
- Online double conversion, full digital control
- Output PF=1, high load adaptability
- Wide range of input voltage tolerance
- Adapt to half-wave load
- Auto fault waveform recording
- Self-aging function to save test energy

Model	TT010EL	TT020EL	TT030EL	TT040EL	TT060EL
Rate power	10kVA/10kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW
Input	3P+N+PE				
Rate Voltage	380/400/415VAC (L-L)				
Voltage range	304~478VAC(L-L) Full load; 304~228VAC (L-L) Power derate from 100% to 50%				
Freq range	40~70Hz				
Rate Voltage	±120VDC	±240VDC			
Charging capacity	50%*Pout			20%*Pout	
Rate Voltage	380/400/415VAC (L-L)				
Rate frequency	50/60Hz				
Output PF	1				
Overload	110%,1 hour; 125%, 10 mins; 150%, 1 min; >150%,200ms				
Crest factor	3:1				
Efficiency-normal mode	Up to 97%				
Certification- Safety	IEC62040-1, IEC60950-1				
Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)				
IP degree	IP20				
Noise (1 meter)	65dB @ 100% load,62dB @ 45% load				
Operation temperature	0-40°C				
Humidity	0-95%(non condensing)				
Configuration	USB, RS232, RS485, Dry contact, Cold start, Air filter, Ethernet				
Option	SNMP card, AS400 card, Parallel kit				
Dimensions (WxDxH)mm	250x745x556			250x728x650	
Net Weight (kg)	30.8	31.8	32.35	66	72

Specs may change as products are updated and innovated.

Extendable Battery Modules

Increase runtime without changing your UPS

RackPower extendable battery modules allow UPS runtime to be increased by adding external battery capacity. This approach keeps the UPS electronics unchanged while providing longer backup times to suit site requirements.

Battery modules are matched to specific UPS models and connect directly via dedicated battery connections. Multiple modules can be added to achieve the required runtime.

Matched and supported

Each extendable battery module is designed specifically for compatible RackPower UPS models to ensure correct voltage, charging and performance, delivering longer runtimes that reduce downtime risk and allow for controlled shutdowns or extended operation during power outages.

Runtime guidance

Adding external battery modules significantly increases backup time across all load levels. Exact runtimes vary based on UPS size, connected load and number of modules installed. Detailed runtime figures are available for all supported UPS and battery combinations.

Tower battery module

Benefits

- Scalable runtime
- Increase backup time as load requirements change
- Simple deployment
- Battery modules connect externally, avoiding internal UPS modifications

Rack-mounted battery module

Model	UCB06T-36	UCB06T-72	UCB12T-72	UCB08T-96	UCB20T-240	UCB06R-36	UCB06R-72	UCB20R-240
Tower or Rack	Tower	Tower	Tower	Tower	Tower	Rack-mounted	Rack-mounted	Rack-mounted
UPS size compatibility	1kVA Tower UPS	2kVA Tower UPS	2kVA Tower UPS	3kVA Tower UPS	6kVA & 10kVA Tower UPS	1kVA Rack UPS	2kVA & 3kVA Rack UPS	6kVA & 10kVA Rack UPS
UPS model compatibility	USS001B	USS002B	USS002B	USS003B	USS006B USS010B	USS001BR	USS002BR USS003BR	USS006BR USS010BR
Battery quantity	6 × 12V 9Ah batteries	6 × 12V 9Ah batteries	12 × 12V 9Ah batteries	8 × 12V 9Ah batteries	20 × 12V 9Ah batteries	6 × 12V 9Ah batteries	6 × 12V 9Ah batteries	20 × 12V 9Ah batteries
Battery rate voltage	36VDC	72 VDC	72 VDC	96 VDC	240VDC	36VDC	72VDC	240VDC

Refer to page 28 for UPS run-time chart.

Specs may change as products are updated and innovated.

Maintenance Bypass Switches

Maintain your UPS without powering down your load

A maintenance bypass switch allows connected equipment to be safely supplied directly from mains power while a UPS is serviced, replaced, or upgraded. The load remains energised while the UPS is electrically isolated, eliminating the need for planned shutdowns.

A maintenance bypass switch is a simple but essential component that reduces risk, downtime and service windows.

What a maintenance bypass does

In normal operation, the load is powered through the UPS. When maintenance is required, the bypass switch manually transfers the load from the UPS to the utility supply. Once the load is on bypass, the UPS can be shut down and disconnected without interrupting power to connected equipment.

After maintenance, the process is reversed and the load is returned to UPS protection.

Benefits

- Zero downtime during UPS servicing
- Carry out UPS maintenance or replacement without powering down critical equipment
- Improved site safety
- The UPS can be fully isolated before work begins, reducing electrical risk during servicing
- Simpler UPS replacement
- Ideal for environments where future UPS upgrades or swaps are expected
- Reduced operational risk
- Avoids temporary power leads, manual changeovers, or live UPS disconnections
- Can be rack mounted or wall mounted
- Use with rack and tower UPS systems

10A/16A External Maintenance Bypass Switch
Model: UPSBS-B2-02

- Suitable for 1-3kVA single-phase UPS systems
- Manual rotary bypass switch with clear UPS and MAINT positions
- Combined power distribution and bypass function
- 4 x C13 IEC and 1 x C19 IEC outlets
- Thermal circuit protection
- 19-inch rack mount or wall mount installation

63A External Maintenance Bypass Switch
Model: UPSBS-B801

- Rated up to 63A for larger single-phase UPS installations
- Manual maintenance switch with mechanical protection plate
- Dedicated input breaker and over-current protection
- 6 x C13 IEC outlets plus terminal connections for flexible load wiring
- Rack mount or wall mount installation
- Clear status indication for maintenance and UPS modes

What is an Automatic Transfer Switch (ATS)?

Automatic power switching for single-corded equipment

An Automatic Transfer Switch (ATS) is used to supply equipment from two independent power sources and automatically switch between them if the primary source fails.

Unlike a maintenance bypass switch, an ATS is not used for servicing a UPS. It is used to maintain uptime for equipment that only has a single power inlet by automatically transferring it between two live supplies.

What an ATS does

An ATS continuously monitors two incoming power sources, commonly referred to as Source A and Source B. If the active source falls outside acceptable limits or fails, the ATS automatically transfers the load to the alternate source within milliseconds.

When the preferred source returns and stabilises, the ATS can switch the load back automatically or under user control, depending on configuration.

Where ATS switches are used

- Single-corded IT equipment
- Ideal for servers, network devices, firewalls and appliances that do not support dual power inputs
- Dual UPS architectures
- Used to provide redundancy where two independent UPS systems are available but the connected device only has one power inlet
- High-availability racks
- Common in data centres, comms rooms and edge sites where uptime is required without adding a second PSU to every device
- Remote or unattended sites
- Ensures automatic power source selection without manual intervention

Maintenance Bypass Switches VS Automatic Transfer Switches

Maintenance Bypass: Manual changeover used to service or replace a UPS without powering down the load.

ATS: Automatic changeover used to maintain uptime by switching between two live power sources.

They serve different purposes and are often used together in higher-availability power designs.

RackPower Smart ATS

RackPower Smart Automatic Transfer Switch
16A inlets, 6xC13 10A / 2xC19 16A outlets with Smart Monitoring

The RackPower Smart ATS is a rack-mounted automatic transfer switch designed for IT and communications environments where fast switching and visibility matter.

Model: iPMTi08A2-01
Static transfer switching with transfer times under 4.5ms
Dual 16A IEC C20 inputs for A and B power sources
Eight IEC outlets supporting C13 and C19 connections
19-inch 1U rack-mounted form factor
Network-enabled monitoring via Ethernet and RS485
Web-based interface for status monitoring, alarms and manual source selection
Aluminium chassis with AS/NZS 3100 compliance
The Smart ATS is commonly deployed downstream of dual UPS systems to provide automatic redundancy for single-corded equipment without manual changeover

Benefits

- Automatic redundancy for single corded equipment
- Fast static transfer switching (under 4.5ms)
- Dual 16A A/B power inputs for resilient supply
- Ideal downstream of dual UPS systems
- Smart monitoring with alarms and status visibility
- Remote access via web interface
- 1U rack-mount design with mixed C13/C19 outlets

Front

Back

Mounting kits

Sliding Rail Mounting Kit

Model: URK02

Sliding Rail Mounting Kit for UPS and battery packs. Adjustable mounting depth from 600mm to 900mm, with a maximum load capacity of 80 kg.

UPS Rack/Tower Kit (4pcs)

Model: URTK04

The UPS Rack/Tower Kit is a robust 4-piece mounting accessory designed for single-phase rack UPS units into a stable tower configuration.

It provides secure vertical support, improved stability and a clean, professional finish, making it ideal for space-saving installations in comms rooms, racks and IT environments.

View RackPower's UPS mounting kits and accessories online.

IEC LOCK

RACKPOWER

Lock in reliable power with IEC-Locks

Prevent accidental disconnection of your UPS power chain.

In critical environments, a loose or bumped power lead can cause an unnecessary outage. IEC-Lock cables use a secure locking mechanism designed to help prevent accidental disconnection of servers, network equipment and critical systems connected to a UPS.

Specs may change as products are updated and innovated.

- Locks into standard IEC inlets
- Quick release tab
- No clips, tools or cable ties required

Add IEC-Lock cables to your power solution with RackPower.

Available in different configurations to suit your setup.

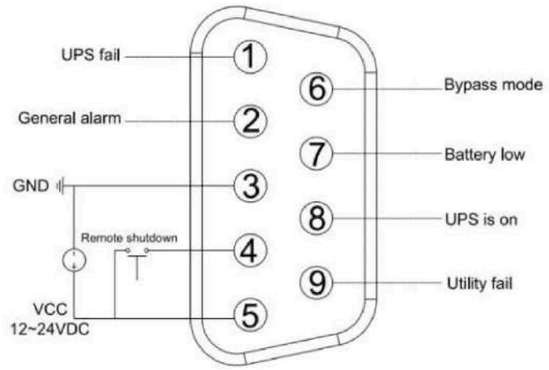
Communications and Interface Options

Built for integration, monitoring and control.

RackPower UPS systems support a wide range of communication interfaces to suit standalone installations, building management systems and full network monitoring environments. Interfaces are selected based on UPS capacity to ensure stable, reliable communication without unnecessary complexity.

RS232 / RS485 communication port

Each RackPower UPS includes an RS232 or RS485 communication port, enabling direct connection for monitoring and system integration.



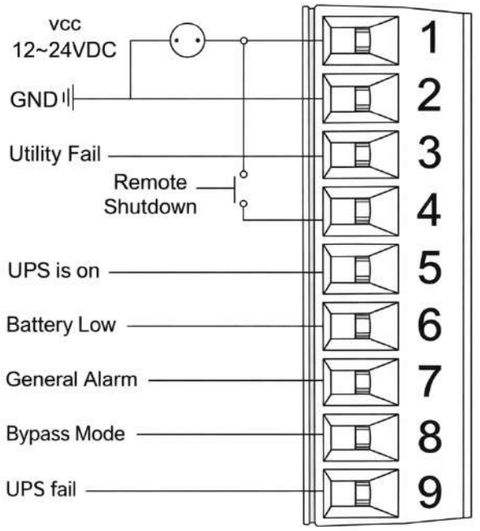
RS-232 Serial Port (DB-9 Connector)

SNMP Network Card
Model: USSSNMP

- Compatible with all RackPower UPS systems
- Adds full IP-based monitoring and network integration
- Web browser access to UPS status and alarms
- SNMP v1, v2 and v3 support
- Modbus TCP support for BMS integration
- Email alerts and SNMP traps
- Supports environmental monitoring accessories
- Hot-swappable intelligent slot design
- Ideal for data centres, network rooms and any site requiring remote visibility and alerting

AS400 Dry Contact Card
Model: USSAS400

- Compatible with all RackPower UPS systems
- Provides hardwired status signals for legacy systems and industrial controls
- Remote shutdown input
- Commonly used with PLCs, fire panels and building management systems where dry contacts are required



Environmental Sensor
Model: USSEMS

- Connects via the SNMP card to monitor site conditions
- Temperature monitoring
- Humidity monitoring
- Water ingress detection
- Alarm thresholds and notifications
- Used to provide early warning of environmental risks within racks and comms rooms

UPS monitoring and management software

Local and network-based monitoring options.

RackPower offers two software platforms depending on how the UPS is connected and how the site is managed. Both provide clear visibility of UPS status, alarms and operating data.

UPSView Monitoring Software

UPSView Monitoring Software is free to download from the website using the UPS serial number and is designed for direct hardwired connections. It is used when the UPS is connected locally via RS232 or RS485.

Key functions

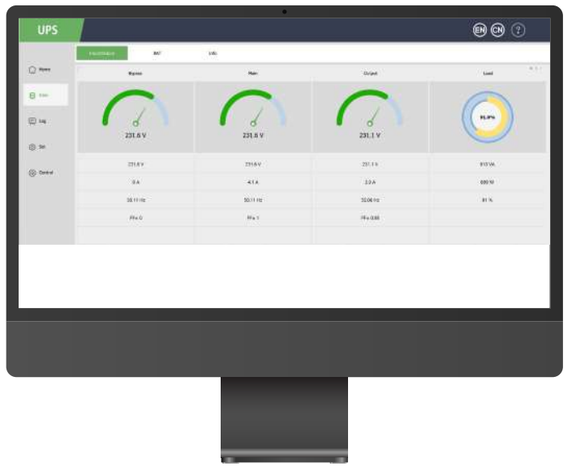
- Real-time UPS status and energy flow display
- Input, output, load and battery monitoring
- Alarm and event logging

Battery runtime and condition monitoring

- Manual control functions such as battery testing and bypass commands

UPSView is commonly used for

- Single UPS installations
- Local monitoring from a service laptop or onsite PC
- Commissioning, testing and maintenance activities
- Communication is via RS232 or RS485 depending on UPS size and configuration



Download UPSView Monitoring Software for free.

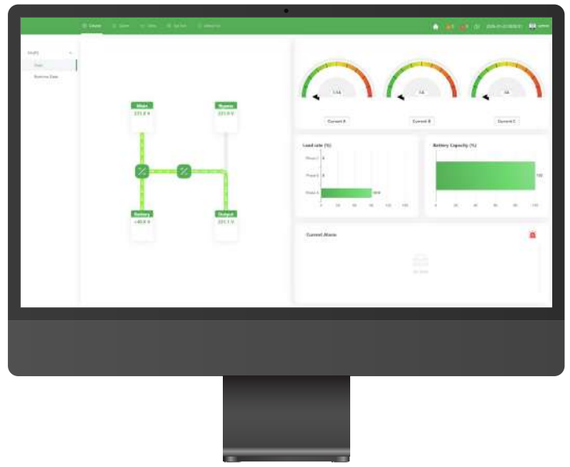
Simply use your UPS serial number as the password.

SNMP Monitoring Software

SNMP Monitoring Software is used for network connected UPS systems. When fitted with a RackPower SNMP card, the UPS can be monitored across the network using a web browser or third party network management platforms.

Key functions

- Browser-based UPS dashboard
- Live alarms and historical event logs
- Email notifications and SNMP traps
- Integration with NMS, BMS and DCIM platforms
- Environmental monitoring data when sensors are connected
- Multi-UPS monitoring from a single interface



This approach is used in:

- Data centres and network operations centres
- Distributed or remote sites
- Environments requiring centralised visibility
- No local software installation is required for basic monitoring. Access is via standard web browsers

Choosing the right monitoring method

UPSView: Direct connection, local control, commissioning and service

SNMP monitoring: Network visibility, remote alarms, multi-site management

Both options can coexist across different UPS models within the same organisation.

RackPower UPS

RackPower UPS runtimes

Backup times are approximate and may vary with equipment, configuration, battery age and temperature.

Product Type	Product Code	Product Description	UPS – Max Load Capacity	Run Time (100% Load)	Run Time (75% Load)	Run Time (50% Load)	Run Time (25% Load)
Rack UPS	USS001BR	1kVA/kW, Rack UPS	1000 Watts	5 minutes	9 minutes	15 minutes	37 minutes
Rack UPS	USS001BR + 1 x UCB06R-36	1kVA/kW, Rack UPS + 1 x Extendable Battery Module	1000 Watts	27 minutes	36 minutes	59 minutes	140 minutes
Rack UPS	USS001BR + 2 x UCB06R-36	1kVA/kW, Rack UPS + 2 x Extendable Battery Module	1000 Watts	49 minutes	71 minutes	117 minutes	275 minutes
Rack UPS	USS001BR + 3 x UCB06R-36	1kVA/kW, Rack UPS + 3 x Extendable Battery Module	1000 Watts	75 minutes	109 minutes	171 minutes	401 minutes
Rack UPS	USS002BR	2kVA/kW, Rack UPS	2000 Watts	5 minutes	7 minutes	15 minutes	36 minutes
Rack UPS	USS002BR + 1 x UCB06R-72	2kVA/kW, Rack UPS + 1 x Extendable Battery Module	2000 Watts	15 minutes	20 minutes	35 minutes	86 minutes
Rack UPS	USS002BR + 2 x UCB06R-72	2kVA/kW, Rack UPS + 2 x Extendable Battery Module	2000 Watts	27 minutes	36 minutes	64 minutes	141 minutes
Rack UPS	USS002BR + 3 x UCB06R-72	2kVA/kW, Rack UPS + 3 x Extendable Battery Module	2000 Watts	39 minutes	52 minutes	94 minutes	196 minutes
Rack UPS	USS003BR	3kVA/kW, Rack UPS	3000 Watts	3 minutes	4 minutes	9 minutes	22 minutes
Rack UPS	USS003BR + 1 x UCB06R-72	3kVA/kW, Rack UPS + 1 x Extendable Battery Module	3000 Watts	9 minutes	12 minutes	22 minutes	52 minutes
Rack UPS	USS003BR + 2 x UCB06R-72	3kVA/kW, Rack UPS + 2 x Extendable Battery Module	3000 Watts	15 minutes	22 minutes	39 minutes	86 minutes
Rack UPS	USS003BR + 3 x UCB06R-72	3kVA/kW, Rack UPS + 3 x Extendable Battery Module	3000 Watts	22 minutes	32 minutes	57 minutes	125 minutes
Rack UPS	USS006BR	6kVA/kW,Rack UPS	6000 Watts	4 minutes	6 minutes	12 minutes	32 minutes
Rack UPS	USS006BR + 1 x UCB20R-240	6kVA/kW, Rack UPS + 1 x Extendable Battery Module	6000 Watts	15 minutes	22 minutes	39 minutes	86 minutes
Rack UPS	USS006BR + 2 x UCB20R-240	6kVA/kW, Rack UPS + 2 x Extendable Battery Module	6000 Watts	28 minutes	37 minutes	66 minutes	146 minutes
Rack UPS	USS006BR + 3 x UCB20R-240	6kVA/kW, Rack UPS + 3 x Extendable Battery Module	6000 Watts	41 minutes	60 minutes	99 minutes	207 minutes
Rack UPS	USS010BR	10kVA/kW, Rack UPS	10000 Watts	2 minutes	3 minutes	5 minutes	16 minutes
Rack UPS	USS010BR + 1 x UCB20R-240	10kVA/kW, Rack UPS + 1 x Extendable Battery Module	10000 Watts	6 minutes	8 minutes	18 minutes	47 minutes
Rack UPS	USS010BR + 2 x UCB20R-240	10kVA/kW, Rack UPS + 2 x Extendable Battery Module	10000 Watts	14 minutes	20 minutes	34 minutes	80 minutes
Rack UPS	USS010BR + 3 x UCB20R-240	10kVA/kW, Rack UPS + 3 x Extendable Battery Module	10000 Watts	21 minutes	30 minutes	54 minutes	119 minutes
Tower UPS	USS001B	1kVA/kW, Tower UPS	1000 Watts	5 minutes	9 minutes	15 minutes	37 minutes
Tower UPS	USS001B + 1 x UCB06T-36	1kVA/kW, Tower UPS + 1 x Extendable Battery Module	1000 Watts	27 minutes	36 minutes	59 minutes	140 minutes
Tower UPS	USS001B + 2 x UCB06T-36	1kVA/kW, Tower UPS + 2 x Extendable Battery Module	1000 Watts	49 minutes	71 minutes	117 minutes	275 minutes
Tower UPS	USS001B + 3 x UCB06T-36	1kVA/kW, Tower UPS + 3 x Extendable Battery Module	1000 Watts	75 minutes	109 minutes	171 minutes	401 minutes
Tower UPS	USS002B	2kVA/kW, Tower UPS	2000 Watts	5 minutes	7 minutes	15 minutes	36 minutes
Tower UPS	USS002B + 1 x UCB06T-72	2kVA/kW, Tower UPS + 1 x Extendable Battery Module	2000 Watts	15 minutes	20 minutes	35 minutes	86 minutes
Tower UPS	USS002B + 2 x UCB06T-72	2kVA/kW, Tower UPS + 2 x Extendable Battery Module	2000 Watts	27 minutes	36 minutes	64 minutes	141 minutes
Tower UPS	USS002B + 3 x UCB06T-72	2kVA/kW, Tower UPS + 3 x Extendable Battery Module	2000 Watts	39 minutes	52 minutes	94 minutes	196 minutes
Tower UPS	USS002B + 1 x UCB12T-72	2kVA/kW, Tower UPS + 1 x Extendable Battery Module	2000 Watts	24 minutes	36 minutes	64 minutes	140 minutes
Tower UPS	USS002B + 2 x UCB12T-72	2kVA/kW, Tower UPS + 2 x Extendable Battery Module	2000 Watts	49 minutes	71 minutes	117 minutes	260 minutes
Tower UPS	USS003B	3kVA/kW, Tower UPS	3000 Watts	4 minutes	6 minutes	14 minutes	32 minutes
Tower UPS	USS003B + 1 x UCB08T-96	3kVA/kW, Tower UPS + 1 x Extendable Battery Module	3000 Watts	12 minutes	19 minutes	32 minutes	76 minutes
Tower UPS	USS003B + 2 x UCB08T-96	3kVA/kW, Tower UPS + 2 x Extendable Battery Module	3000 Watts	22 minutes	32 minutes	57 minutes	125 minutes
Tower UPS	USS003B + 3 x UCB08T-96	3kVA/kW, Tower UPS + 3 x Extendable Battery Module	3000 Watts	32 minutes	47 minutes	76 minutes	167 minutes
Tower UPS	USS006B	6kVA/kW ,Tower UPS	6000 Watts	4 minutes	6 minutes	12 minutes	32 minutes
Tower UPS	USS006B + 1 x UCB20T-240	6kVA/kW, Tower UPS + 1 x Extendable Battery Module	6000 Watts	15 minutes	22 minutes	39 minutes	86 minutes
Tower UPS	USS006B + 2 x UCB20T-240	6kVA/kW, Tower UPS + 2 x Extendable Battery Module	6000 Watts	28 minutes	37 minutes	66 minutes	146 minutes
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Tower UPS	USS010B	10kVA/kW, Tower UPS	10000 Watts	2 minutes	3 minutes	5 minutes	16 minutes
Tower UPS	USS010B + 1 x UCB20T-240	10kVA/kW, Tower UPS + 1 x Extendable Battery Module	10000 Watts	6 minutes	8 minutes	18 minutes	47 minutes
Tower UPS	USS010B + 2 x UCB20T-240	10kVA/kW, Tower UPS + 2 x Extendable Battery Module	10000 Watts	14 minutes	20 minutes	34 minutes	80 minutes
Tower UPS	USS010B + 3 x UCB20T-240	10kVA/kW, Tower UPS + 3 x Extendable Battery Module	10000 Watts	21 minutes	30 minutes	54 minutes	119 minutes

UPS and battery maintenance

Installation and operating guidance.

Correct installation and regular maintenance are critical to achieving reliable UPS operation and full battery service life. The following guidelines apply to RackPower UPS systems and the lead-acid batteries supplied as standard.

Environment

- UPS systems and battery modules must be installed in a clean, dry and well-ventilated environment
- Recommended ambient temperature: 20–25°C
- Avoid locations exposed to direct heat sources, moisture, or corrosive atmospheres
- Ensure front and rear ventilation is not obstructed
- Allow adequate clearance for airflow and service access
- Operating batteries outside the recommended temperature range significantly reduces service life
- Not recommended for installation in dusty or corrosive environments

Rack and floor loading

- Battery cabinets are heavy and must be supported correctly.
- Install rack-mounted UPS and battery modules from the bottom up
- Ensure racks are rated for the combined UPS and battery weight
- Tower units must be installed on stable, level surfaces

Electrical installation

- All wiring must be carried out by qualified personnel in accordance with local electrical regulations
- Use correctly rated input, output and battery cabling
- Fit external AC and DC protection devices where specified
- Verify correct polarity and secure terminations before energising
- Ensure battery breakers are open during installation

Battery system overview

- RackPower UPS systems use sealed, valve-regulated lead acid (VRLA) batteries based on AGM technology
- Battery type: 12V 9Ah VRLA Battery
- Maintenance-free design
- 10-year standby design life under correct conditions
- These batteries are non-spillable, suitable for indoor use

Battery maintenance recommendations

- Although VRLA batteries are maintenance-free, periodic checks are required to maintain reliability
- Routine checks
- Inspect UPS status and alarms at least every six months
- Confirm UPS is operating in normal mode, not bypass
- Check for blocked ventilation or excessive dust buildup

Charging and storage

- If a UPS is stored or not used, recharge batteries every 4–6 months
- In warmer environments, perform charge and discharge cycles more frequently
- Allow a minimum of 12 hours recharge time after extended discharge

Battery life expectations

- Typical service life: 3–5 years in real-world conditions
- Higher temperatures, frequent deep discharges and poor ventilation reduce life
- All batteries in a string should be replaced at the same time

Battery replacement and safety

- Battery replacement must only be carried out by trained personnel.

Safety precautions

- Remove watches, rings and metallic objects
- Use insulated tools and appropriate PPE
- Do not place tools or metal objects on batteries
- Never short battery terminals
- Isolate the UPS and battery supply before commencing work
- Even when mains power is disconnected, batteries may still present hazardous voltage

Replacement guidelines

- Transfer the UPS to bypass or shut down the load
- Isolate input, output and battery breakers
- Replace batteries with the same type and rating
- Verify correct polarity before reconnecting
- Return the UPS to normal operation and confirm charging status

Ongoing system reliability

Regular inspection and correct environmental conditions are the most effective ways to extend UPS and battery life. Where extended runtimes or critical uptime is required, scheduled preventative maintenance is recommended.

Compliance and warranty

Certified for Australia and New Zealand installations.

RackPower single-phase UPS systems from 1kVA to 10kVA are independently tested and certified against applicable international safety and electromagnetic compatibility standards. All listed models are suitable for installation in Australian and New Zealand electrical environments and carry RCM approval.

Electrical Safety Compliance (LVD)

RackPower UPS systems are tested to the Low Voltage Directive (LVD) 2014/35/EU, covering electrical safety, insulation, creepage and clearance distances, earthing and fault protection.

- Applicable standard
- EN IEC 62040-1:2019 + A11:2021
- Uninterruptible Power Systems – General and safety requirements

Electromagnetic Compatibility (EMC)

RackPower UPS systems are tested to ensure they do not introduce electrical noise into the supply network and remain stable when exposed to electrical disturbances

- Applicable standards
- EN IEC 62040-2:2018 – EMC requirements for UPS
- EN 61000-3-12:2011 – Harmonic current emissions
- EN IEC 61000-3-11:2019 – Voltage fluctuations and flicker
- Test coverage includes
- Conducted and radiated emissions
- Harmonics and flicker
- ESD, surge, EFT, RF immunity and magnetic field immunity

RCM Approval (Australia & New Zealand)

RackPower UPS systems carry the RCM mark, confirming compliance with:

- Electrical safety requirements
- EMC regulations
- Supplier declaration and traceability obligations
- This allows direct installation in Australia and New Zealand without additional local compliance testing

Warranty

- Warranty coverage applies when products are installed and operated in accordance with RackPower documentation and applicable standards
- RackPower products are backed by a clear, installer-friendly warranty structure

Standard warranty

- UPS electronics: 2 years
- Internal and external batteries: 1 year

Extended warranty option

- Optional additional 1-year warranty on UPS electronics
- Available on request at time of purchase

RACKPOWER

Keep your critical systems running. Always.

RackPower supplies everything you need to power and protect your systems.

- Power Distribution Units (PDU)
- Intelligent Power Distribution Units (iPDU)
- MCB Distribution Boards
- Uninterrupted Power Supply (UPS)
- Power cables and cords
- Electrical components
- Rack accessories
- Expert advice

Let us power your next project

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