
PRODUCT BROCHURE

Single-phase UPS





Table of contents

002–003	Disclaimer
004–004	Uninterrupted power, around the clock
005–009	1 UPS introduction
010–011	2 Product overview
012–012	3 PowerValue 11LI UP
013–013	4 PowerValue 11LI Pro
014–015	5 PowerValue 11T G2 1-10 kVA
016–017	6 PowerValue 11 RT
018–019	7 PowerValue 11RT G3 LIB 1-3kVA
020–021	8 PowerValue 11/31/33T G2 10–20kVA



Disclaimer

Terms and Conditions

The ABB Power Protection SA sales terms and conditions are valid for any items purchased from ABB Power Protection SA unless otherwise stated and agreed upon.

ABB's latest warranty terms and conditions are applicable unless otherwise stated and agreed upon. See the contact page at the end of this catalog for more information on obtaining the latest warranty terms and conditions.

Technical

The information in this catalogue regarding UPS autonomy refers to a typical operation scenario. Refer to the product datasheet for a complete overview of the battery runtime.

The technical specifications in this document are subject to change without notice at the sole discretion of ABB Power Protection SA

Uninterrupted power, around the clock

Power cuts stop your customers in their tracks – causing business disruption, damaging equipment, and even causing data loss. But now, thanks to the PowerValue range of single-phase UPS devices, your customers can keep the power on when an outage hits.

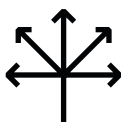
Precision-engineered, widely available, and built for maximum performance, they are highly reliable. Plus, with customizable options to extend runtime, your customers can tailor a power protection suite that keeps your customers fully operational for as long as they need.

About the PowerValue range



Uninterrupted access

With ABB's single-phase UPS devices, your customers can keep their operations secure and data accessible, even if the power drops off.



Uninterrupted versatility

A variety of upgrade options are available. Your customers will be able to connect multiple devices and build a power protection suite designed just for them.



Uninterrupted quality

With over 130 years of expertise, ABB knows how to deliver top-quality power protection. Our single-phase UPS devices are no exception. You and your customers can depend on them for seamless, continuous power.

Why ABB?

We offer a comprehensive portfolio of single-phase UPS devices. Based on strong and stable architectures, our premium power protection systems are ready to step in at the first sign of trouble.

Post-sale, our global network of support is here to help customers maximize the potential of their UPS systems and ensure continuous, reliable power protection.



1 UPS introduction

What is a UPS?



Electronic equipment supporting critical systems—such as telecommunication servers, LAN nodes, and computers—requires a continuous supply of power. In some cases, even a minor disruption in power can cause damage to the equipment, data loss, an interruption of vital communication channels, or disturb potentially life-saving equipment.

A guaranteed way to ensure critical systems maintain power during electrical variances is with an uninterruptible power supply (UPS). A UPS is a continuous power system protecting electronic equipment from unexpected power disruptions during mains failures and other power interruptions.

In the event of power failure or if the mains voltage falls below minimum levels, the UPS maintains continuous power to electronic equipment until the mains is restored, a shutdown sequence is performed, or a backup generator resumes power.

Unlike a UPS, a backup generator can provide electricity for a long period during outages. However, there will be a short interruption in the power supply while the generator comes up to speed. Further, a generator does not prevent power disruptions to equipment in the event of an outage, blackout, power surge, spikes, etc. This means important, even life-saving, electrical equipment either shuts down, restarts, or becomes damaged during power interruptions. A UPS stands apart from an emergency power system or a backup generator in that it provides continuous or near-instantaneous power when a failure occurs.

UPS topologies

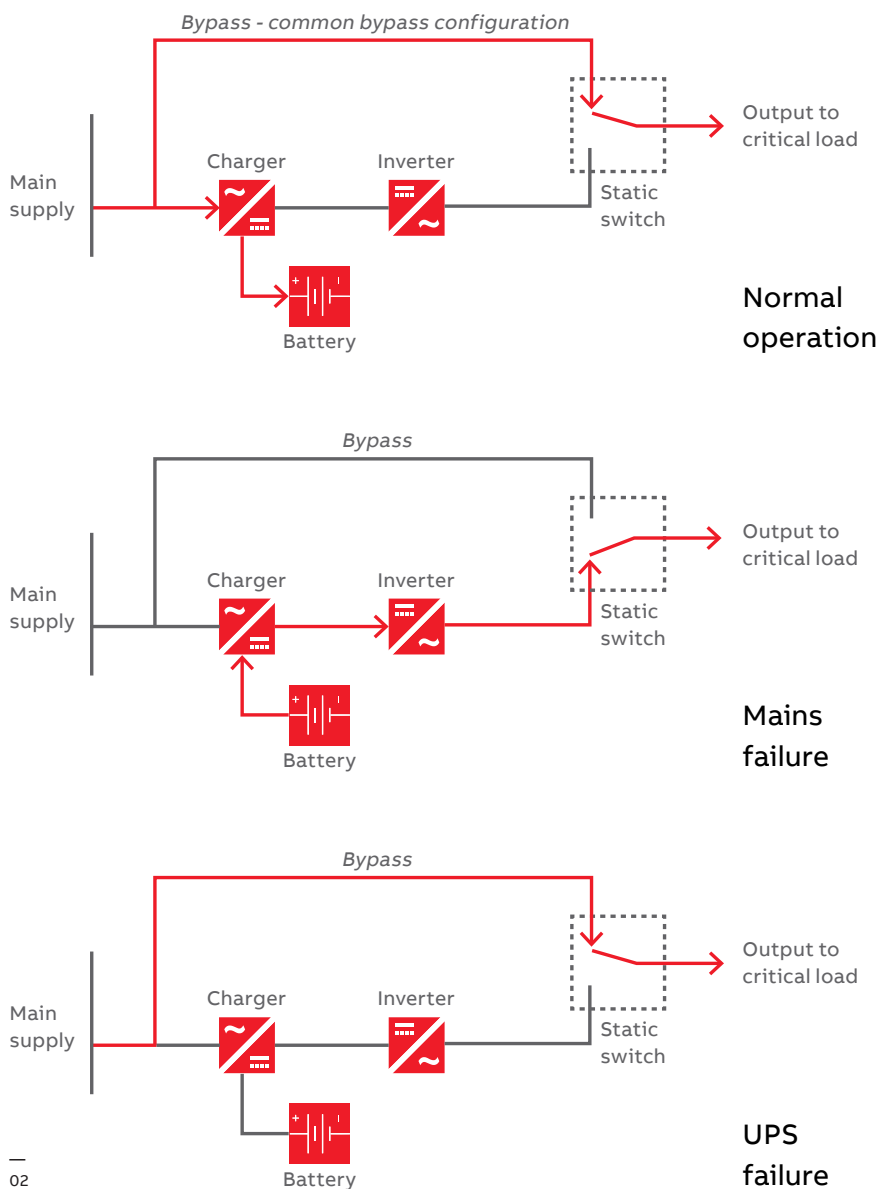
Offline/standby

—
02 Offline/
standby UPS

An offline/standby UPS offers basic surge protection and continuous power from a backup battery.

The figure shows an offline UPS model during normal operation, mains failure and UPS failure. The offline UPS design protects equipment by powering the critical loads from the bypass line (ie, the raw mains) and then transferring power to the inverter if the bypass supply fails, or if the voltage goes above or below the acceptable preset limits.

During normal operation, equipment may experience several mains disturbances that are within the acceptable limits, but the offline UPS includes spike suppression and radio frequency (RF) filtering within its bypass circuit.

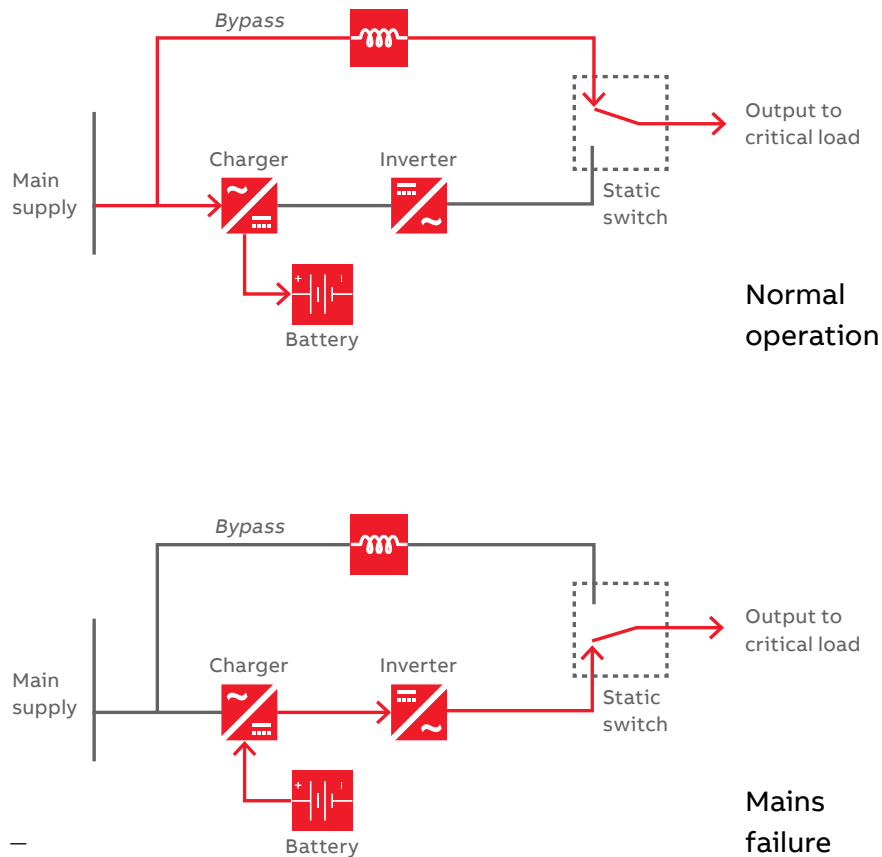


Line-interactive

—
03 Line-inter-
active UPS

The line-interactive UPS operates similarly to the offline/standby UPS in that it typically supplies the critical load through the bypass line and then transfers it to the inverter in the event of a bypass supply failure. The line-interactive system utilizes the battery, charger and inverter in the same manner as the offline/standby unit, but with added circuit regulators in the bypass line. This regulator transfers the load to the battery-fed inverter supply less frequently, which makes the line-interactive UPS more efficient in operation costs and battery wear and tear compared to the offline/standby UPS system.

The figure shows the line-interactive UPS system during normal operation and mains failure. During normal operation, the mains supply powers the electrical load through the bypass line and charges the battery if needed. During mains failure, the battery supplies power to the inverter which provides power to the electrical load.



Online/double-conversion

An online UPS offers the most comprehensive solution in uninterruptible power. The online UPS system replaces the battery charger with a rectifier/charger block, which is either two separate units or a combined power block.

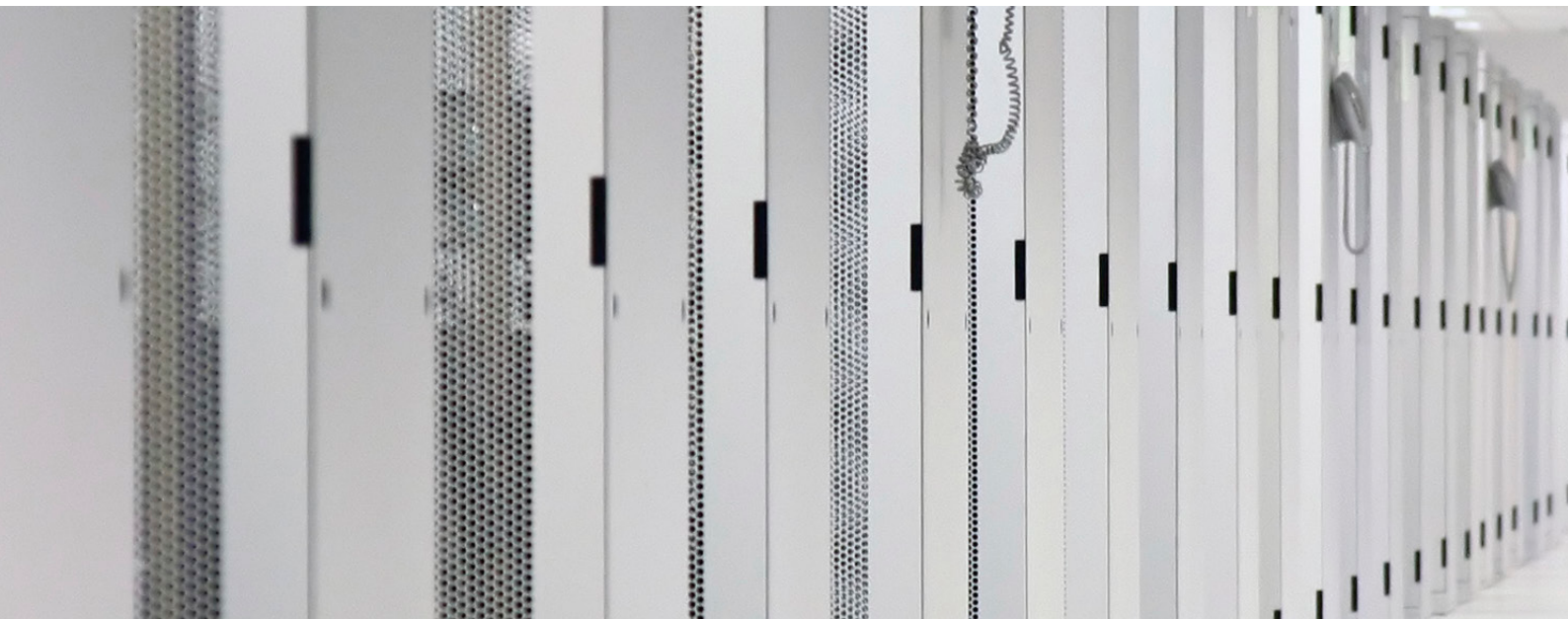
The figure below illustrates the online UPS system during normal operation, mains failure and UPS failure on bypass mode. When mains power is present, this power block charges the battery and supplies the inverter with a steady voltage supply. During mains failure, the UPS rectifier drops from the circuit, allowing the batteries to maintain constant and uninterrupted power. When power is restored, the rectifier begins carrying most of the load and recharging the batteries.

The rectifier/charger has a control feature that has an input current limit feature that protects critical equipment that is sensitive to minor power fluctuations from losing power. This type of UPS is perfect for environments containing sensitive electrical equipment that mandates isolation.

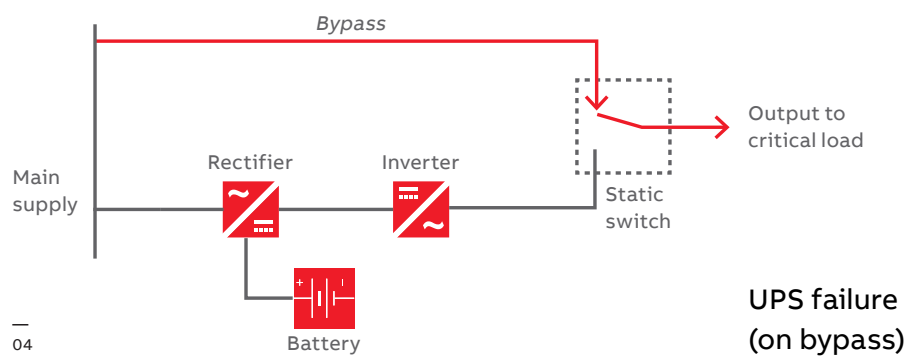
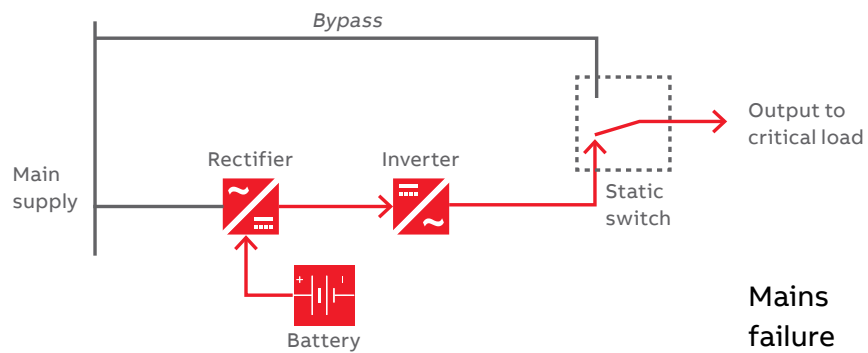
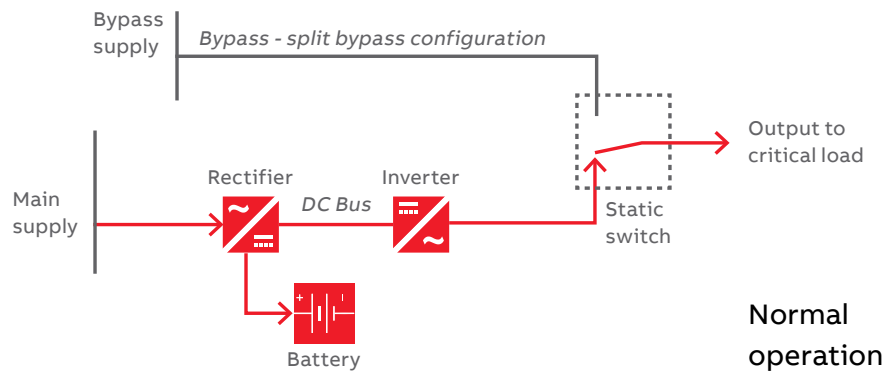
This UPS is also known as the double conversion UPS due to its two conversion stages of AC-DC and DC-AC. The double conversion UPS offers the greatest degree of critical power supply integrity. When the UPS input mains supply is present, the rectifier, charger, and inverter power blocks are all active and the load is connected to the inverter output from the static switch. As the load is powered from the inverter during normal operation circumstances, it is protected from power fluctuations and disturbances since the rectifier and inverter act as a “firewall” between the equipment and mains power voltage fluctuations.

If the mains input supply fluctuates above or below a preset voltage range (typically +10% to -20%) or suffers a total failure, the inverter continues operating from battery power and the event is completely transparent to the electrical load. This is because there is no power transfer operation involved.

When operating from battery power, the inverter supplies steady regulation as when the mains is present. If the mains power is not restored before the battery is depleted, then the inverter shuts down.



—
04 Online/double-
conversion UPS

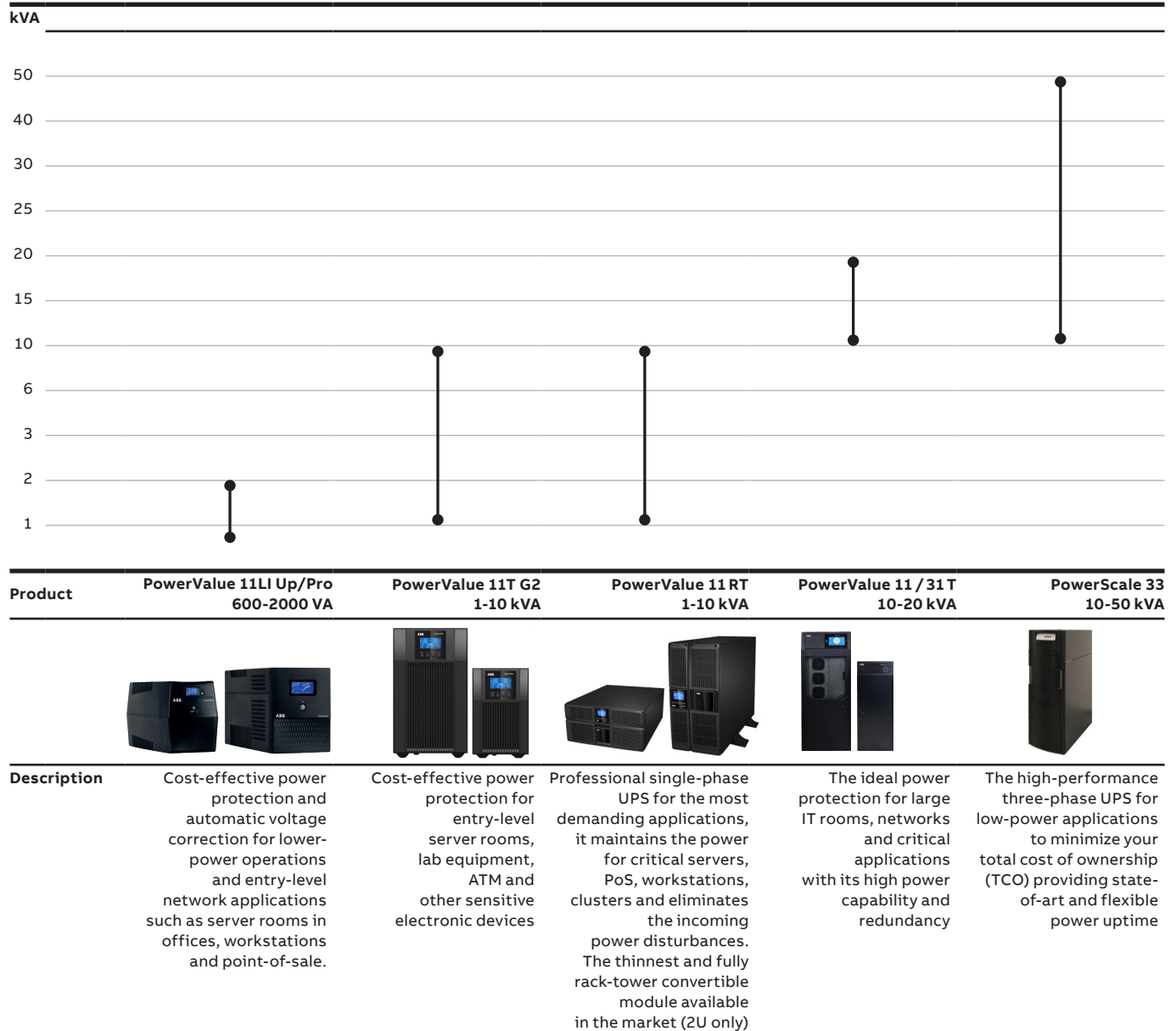


—
04



2 Product overview

UPS rated power and overview





3 PowerValue 11LI UP

A line-interactive UPS to suit all pockets



Intended for users with lower power requirements, the line-interactive PowerValue 11LI Up delivers from 600 up to 2,000 VA electrical power, making it the ideal UPS for modest IT applications. As well as intervening within 2 to 6 ms to power your application when mains power is lost, the PowerValue 11LI Up also filters out input power disturbances such as surges, line noise or brownouts. If the input power factor starts to play up, the PowerValue 11LI Up will automatically correct it.

This UPS solution has been created to make life easy for the user:

- An intuitive touchscreen display allows parameters to be read with the minimum of fuss.

Enhanced runtime

- Up to four minutes autonomy with typical IT load
- High quality batteries ensure stable performance over years
- Minimize the costs related to battery maintenance and replacement

Compact size

- Small footprint
- Easy to place nearby a laptop or monitor

- USB and RS232 interfaces give access to the outside world.
- Dedicated RJ11/RJ45 sockets protect connected telecoms devices.

The UPS's internal enhanced-runtime batteries are designed to give you stable, low-maintenance performance over many years of service. When they eventually have to be replaced, this can be done without opening the cabinet. The slot to access the batteries is located at the bottom. A comprehensive battery management suite and fan cooling ensure batteries are not overloaded and that they do not overcharge, discharge too deeply or overheat.

Easy battery replacement

- Change your battery in seconds
- Easy and safe access to the internal battery
- No need to dismantle the whole cabinet

Touchscreen LCD display

- All information in a tap
- More user friendly than a LED interface

4 PowerValue 11LI Pro

A line-interactive UPS ideal for entry-level network equipment



Intended for entry-level network applications – such as server rooms in offices, network cabinets, work-station clusters, domestic networks, point-of-sale, network-attached data storage arrays and similar- sized situations – the line-interactive PowerValue 11LI Pro delivers from 600 up to 2,000 VA electrical power. This advanced protection ensures your connected equipment always sees a clean, regulated and reliable pure sinusoidal voltage.

This UPS solution has been created to make life easy for the user:

- An intuitive LCD display allows parameters to be read with the minimum of fuss.
- USB and RS232 interfaces give access to the outside world.
- Dedicated RJ11/RJ45 sockets protect connected telecoms devices.

Enhanced runtime

- Up to six minutes with typical IT load
- High quality batteries ensure stable performance over years
- Minimize the costs related to battery maintenance and replacement

Compact size

- Small footprint
- Easy to place nearby a laptop or monitor, underneath a table or at the bottom of an IT rack

The UPS's internal enhanced-runtime batteries are designed to give you stable, low-maintenance performance over many years of service. When they eventually have to be replaced, this can be done by opening only the front panel. A comprehensive battery management suite and fan cooling ensure batteries are not overloaded and that they do not over-charge, discharge too deeply or overheat.

ABB's design, technology and quality experience in high-end UPS engineering has been distilled into the line-interactive PowerValue 11LI Pro to produce a UPS that offers full protection and peace of mind for your moderately sized IT applications.

Easy battery replacement

- Change your battery in seconds
- Easy and safe access to the internal battery
- No need to dismantle the whole cabinet

Pure sinewave output

- Less harmonics content, lower fan speed and reduced acoustic noise
- Improved load performance and prolonged lifetime

5 PowerValue 11T G2 1-10 kVA

A cost-effective solution for maximum power protection



ABB's PowerValue 11T G2 is a single-phase in/out, double conversion online uninterruptible power supply (UPS) that guarantees up to 10 kW per single UPS of clean, reliable power for your critical single-phase applications. As well as maintaining power to your server room, advertising display, turnstiles, lab equipment, transportation signaling systems, ATM or vending machine, the PowerValue 11T G2 also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

Featuring voltage and frequency independent (VFI) topology, the tower-only PowerValue 11T G2 saves costs by minimizing energy losses with its double conversion efficiency of up to 95 percent

(up to 98 percent in ECO mode). Two or three units can be connected in parallel to boost power delivery to a maximum of 30 kW or to provide redundancy.

Simple to install or maintain, inexpensive to run and with the most compact online UPS footprint available on the market, the PowerValue 11T G2 provides stable, regulated, transient-free, pure sine wave AC power with extremely tight output voltage regulation. All units can be fitted with up to four external battery modules (EBMs) to extend runtime to well over two hours. Each EBM is dedicated to its corresponding UPS and setup is easily accomplished via the LCD menu.

High reliability

- Double conversion topology protects the load from all input disturbances
- Parallelable up to three units (6-10 kVA only) to provide system redundancy
- User-replaceable batteries
- Wide input voltage tolerance

Low cost of ownership

- Scalable runtime
- High operating efficiency
- Low installation and upgrading costs
- Compact design
- Output power factor of 1.0 (6-10 kVA only)

Flexible design

- Multiple connectivity options
- Each UPS can be connected with up to four parallel battery modules for extended runtime
- Adjustable DC voltage and battery charger current
- Extended backup time models available
- Best power density available in the market segment

Efficient service concept

- Integrated manually operated maintenance bypass switch (6-10 kVA only)
- Easy setup and maintenance (plug and play)
- User-friendly display
- Remote monitoring options

PowerValue 11T G2 1-10 kVA

Product features

The PowerValue 11T G2 with its cost-effective ABB UPS technology makes a high-performance and is now available to market sectors with lower power requirements: Small server rooms, critical lab or industrial equipment, security installations and applications of a similar power class can now profit from one of 12 PowerValue 11T G2 models.

With the most compact online UPS footprint available, the PowerValue 11T G2 features true on-line double conversion. This provides a flexible output frequency and isolates the UPS from upstream disturbances so that the critical load sees only stable, well-regulated, transient-free, pure sine wave AC power.

A rated output power factor up to 1.0 (kVA = kW) means the PowerValue 11T G2 delivers 11 percent more active power than a UPS with a power factor of 0.9. The UPS is optimized for modern IT loads and helps users reduce their energy budget

with its double conversion efficiency of up to 95 percent (up to 98% in ECO mode).

- Low input line disturbances: input PF $\geq$ 0.995 @ 100 percent linear load – THDi < 3 percent
- Flexible configuration for scalable runtime: UPS and EBMs with and without batteries (long backup)
- Adjustable DC voltage and battery charger current
- Digital charger technology provides accurate charger current setting and reduces charger ripple current
- The UPS is delivered with an inbuilt parallel board and paralleling cables. No additional hardware is required for this installation.

All this with the same guaranteed high availability and quality standards as ABB's higher-power premium UPS models - and at the most attractive entry level price around.

UPS configuration

Standard

- Tower-type, IP20 UPS enclosure
- Single-phase in and out
- Online double conversion UPS
- Paralleling up to three units allows for increase of capacity to 30 kW or redundancy (6-10 kVA only)
- Operator and status LCD
- Wide voltage input frequency range
- Inbuilt batteries (B/B2 versions only)
- Maintenance bypass switch (6-10 kVA only)
- Plug-and-play

Options

- Additional battery cabinets (EBM) for scaling autonomy time
- SNMP, ModBus and AS400 interface cards for remote control and monitoring of the UPS via a web browser
- Sensors – combined with the network interface card, environmental humidity and temperature sensors can be integrated into the system and monitored remotely
- Connectivity functionality via Winpower SNMP (network management card), mini SNMP, ModBus, mini ModBus, EMP (environmental monitoring probe), AS400 and mini AS400

Battery runtime at full nominal load

Model	Internal batteries	EBM	UPS	UPS + 1 EBM	UPS + 2 EBM	UPS + 3 EBM	UPS + 4 EBM
G2 1 kVA B	1 x 2 x 9.4 Ah	3 x 2 x 9 Ah	5	23	52	85	120
G2 1 kVA S	No	3 x 2 x 9 Ah	-	17	48	70	100
G2 2 kVA B	1 x 4 x 9.4 Ah	3 x 4 x 9 Ah	5.5	25	55	90	125
G2 2 kVA S	No	3 x 4 x 9 Ah	-	18	50	80	110
G2 3 kVA B	1 x 6 x 9.4 Ah	2 x 6 x 9 Ah	5.5	16.5	35	55	80
G2 3 kVA S	No	2 x 6 x 9 Ah	-	10.5	28	50	70
G2 6 kVA B	1 x 16 x 7.2 Ah	2 x 16 x 9 Ah	4	18	41	68	99
G2 6 kVA B2	1 x 20 x 7.2 Ah	2 x 20 x 9 Ah	5.5	25	55.5	92.5	134
G2 6 kVA S	No	2 x 20 x 9 Ah	-	18	49	88	133
G2 10 kVA B	1 x 16 x 9 Ah	2 x 16 x 9 Ah	3	12	25	39	55.5
G2 10 kVA B2	1 x 20 x 9 Ah	2 x 20 x 9 Ah	4	17	34	53	75
G2 10 kVA S	No	2 x 20 x 9 Ah	-	9	24	42.5	64

in minutes at full load

6 PowerValue 11 RT

The single-phase UPS for critical applications



ABB's PowerValue11RT is a double-conversion on-line UPS that guarantees up to 10 kVA of clean, reliable power for your critical single-phase applications. As well as maintaining power to your servers, point-of-sale terminals, workstation clusters, routers, switches, hubs and sensitive electronic equipment, the PowerValue11RT also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

High reliability

- Reliable double conversion topology protects load from all input disturbances
- Batteries can be added or replaced easily
- Reduced recovery time from discharge
- Redundant parallel operation available (6 and 10 kVA units)

Low cost of ownership

- Scalable runtime
- High operating efficiency, regardless of loading
- Reduced installation and upgrading costs
- Compact design

The PowerValue11RT can be used as a standalone UPS device or installed into a standard 19" rack configuration, with connectivity options available for each.

Three units of the 6 or 10 kVA models can be configured in parallel to provide redundancy or to increase the systems total capacity up to 30 kW. All units can be fitted with up to four battery modules to extend runtime.

Flexible design

- Configurable in tower or rack-mount format
- Rotatable display
- UPS can be connected with up to four parallel battery modules for extended runtime
- Long backup models available
- Full set of accessories and connectivity options

Efficient service concept

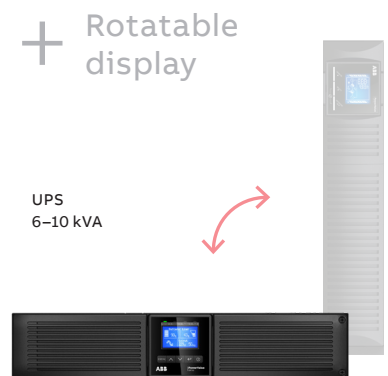
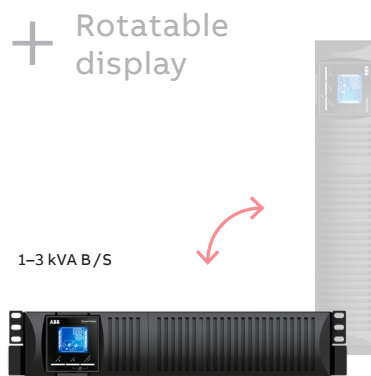
- Manually operated maintenance bypass switch (optional)
- Easy set up and maintenance (plug and play)
- User-friendly display
- Hot swap user-replaceable batteries

PowerValue 11 RT

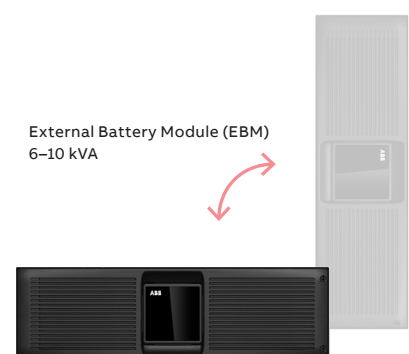
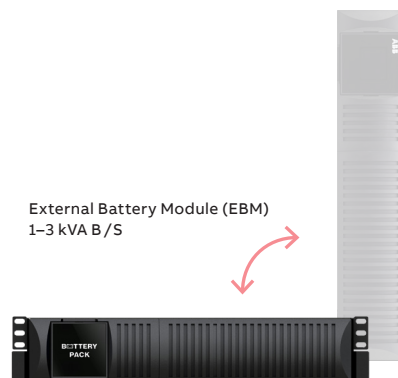
Product features

The advanced system architecture guarantees that the user is able to select a system to match their needs. Scalable runtime and the easy introduction of additional batteries make the solution sustainable.

In addition, three PowerValue11RT 6 or 10kVA UPSs can be connected in parallel to increase total power or to add redundancy. The UPSs are delivered with an installed parallel board and paralleling cables. No additional hardware is required for a parallel installation.



Scalable battery runtime



Battery runtime

Model	Internal batteries	EBM	UPS	UPS+1EBM	UPS+2EBM	UPS+3EBM	UPS+4EBM
1 kVA B	1 x 3 x 7.2 Ah	2 x 3 x 7.2 Ah	<4	16	32	52	68
1 kVA S	-	2 x 3 x 7.2 Ah	-	6	22	40	62
2 kVA B	1 x 4 x 9 Ah	2 x 4 x 7.2 Ah	4	12	22	32	45
2 kVA S	-	2 x 4 x 7.2 Ah	-	<5	11	22	34
3 kVA B	1 x 6 x 9 Ah	3 x 4 x 7.2 Ah	4	13	23	35	49
3 kVA S	-	3 x 4 x 7.2 Ah	-	<5	10	21	33
G2 6 kVA	-	1 x 20 x 9 Ah	-	7	18	33	49
G2 10 kVA	-	1 x 20 x 9 Ah	-	3	9	16	24

in minutes at full load

7 PowerValue 11RT G3 LIB 1-3kVA

Uninterrupted Power. Advanced Lithium-ion Technology. Built for Critical Demands



Always-On Power for Your Most Sensitive Equipment

The ABB PowerValue 11RT G3 LIB UPS delivers flawless, clean energy to safeguard servers, medical devices, industrial systems, and more. With double-conversion online technology and integrated lithium-ion batteries, it continuously filters and stabilizes incoming power, eliminating surges, sags, and noise. When an outage strikes, the transition to battery power is instant—zero downtime, zero disruptions.

Key Features:

- **Lithium-ion Battery:** Provides longer backup time with an inbuilt battery and supports an external lithium-ion battery module.
- **Smart Overload Protection:** Automatically switches to bypass mode during faults and restores inverter power once safe.
- **Low TCO:** 8 years design life and 2,000 battery life cycle
- **Global Accessibility:** Touch-enabled LCD with 7 selectable languages.

Advanced Battery Management

System (BMS): Power with Precision

- **Predictive Battery Health Monitoring:** Detects voltage, current, and temperature (V/I/T) anomalies early. Accurately forecasts state-of-charge (SOC) and state-of-health (SOH) for proactive battery replacement planning.
- **Reliable Battery Management System:** A specially designed BMS optimized for UPS performance.
- **Dual-Layer Protection:** Combines hardware and firmware safeguards for real-time threat response.

Ensure uninterrupted power and protect critical equipment with the ABB PowerValue 11RT G3 LIB 1-3kVA UPS, engineered for reliability and adaptability. This advanced system delivers robust surge and outage protection, customizable configurations, and intuitive controls—all while optimizing energy efficiency and minimizing downtime. Trust ABB's expertise to maintain seamless performance for your essential operations.

Cold Start: Power Up Anywhere, Anytime

Launch the UPS directly from batteries—even during blackouts—to keep critical systems running. This feature also acts as a diagnostic tool:

- If the UPS starts on a battery but fails to switch to online/bypass mode, it confirms a mains power failure, accelerating troubleshooting.

Remote Power Off (RPO): Safety First

- **Full Disconnect:** Instantly cuts AC/DC power to loads for safe maintenance or emergencies.
- **Secure Reactivation:** Reset the RPO connector, clear the status via LCD, and press the power button to restore operations—no accidental restarts.

Constant Voltage & Frequency (CVCF) Mode

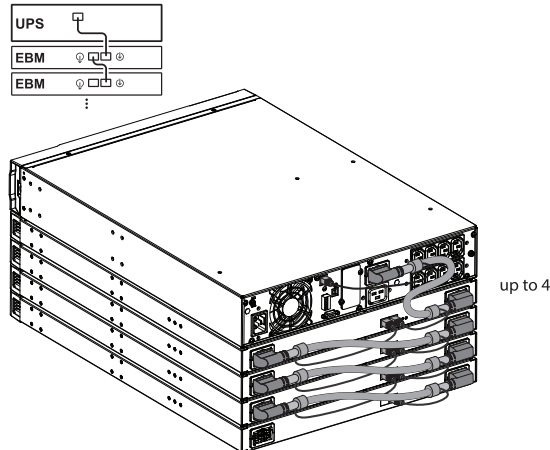
- **Stable Output, Always:** Converts frequencies (50Hz ↔ 60Hz) and locks voltage/frequency to shield equipment from grid instability.
- **Simple Setup:** Activate CVCF via the LCD menu—ideal for regions with erratic power or sensitive lab/industrial environments.

Technical Excellence, Delivered

- **Wide Input and Output Range:** Supports 50Hz/60Hz frequency selection, with an input range of 160V–300V AC and an output of 200/208/220/230/240V AC.
- **High Overload Capability:** Operates continuously at 105% load and sustains 125% overload for up to 5 minutes without switching to inverter mode.
- **Global Safety and Compliance:** Meets strict IEC and UL standards for superior quality and reliability

Battery modules

The ABB PowerValue 11RT G3 LIB 1-3kVA UPS supports battery modules to extend runtime during prolonged outages, ensuring critical operations remain powered. With a compact 1U height, the module minimizes rack space usage, maximizes installation flexibility, and helps reduce overall lifecycle costs. Paired with an intelligent charging system, it optimizes performance and lifespan, delivering adaptable, cost-effective power continuity for demanding environments.



Power (KVA)	Internal battery	Charging current
1 K	1x9 Ah	1.5 A
1.5 K	1x9 Ah	1.5 A
2 K	1x9 Ah	1.5 A
3 K	1x9 Ah	1.5 A



Power	Dimensions (WxHxD) (mm)	Weight (kg)	Battery
1 K	438*43*448	12	1x 12 Ah
1.5 K	438*43*448	12	1x 12 Ah
2 K	438*43*603	17.4	1x 12 Ah
3 K	438*43*603	17.4	1x 12 Ah

Monitoring software

This is an advanced UPS management software suite to allow remote control and monitoring of UPS equipped with network interface cards in a LAN or Internet environment. It can manage a single or multiple UPSs and prevent data loss from a power outage by programming a safe system shutdown. The software is included with the NMC adapter.

Network interface card

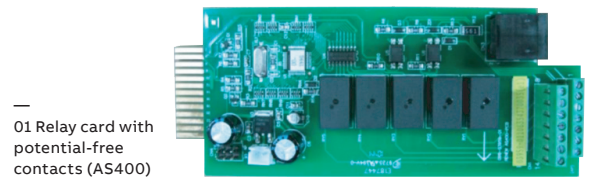
Enables real-time monitoring of your UPS system via a standard web browser or by using the included monitoring software. ABB's monitoring devices provide real-time visibility of the condition of your power equipment and help solve problems before they become critical.

Supported models

Network Management Card (NMC)	Modbus Card (Modbus)	Temperature and humidity sensors (EMP)

Relay interface card

Installable and hot-swappable card providing contact closures for remote monitoring of alarm conditions of PowerValue 11RT G3 LIB 1-3KVA UPS systems.



Models

NMC Card	4NWP100110R0001
Modbus Card	4NWP104039R0001
EMP	4NWP104040R0001
AS400 Card	4NWP100120R0001

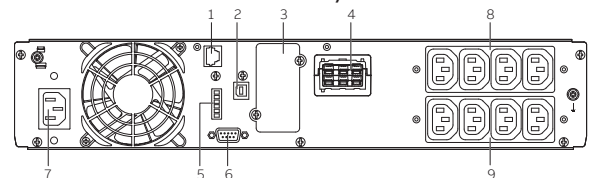
Serial Communication Cable

- RS232 cable

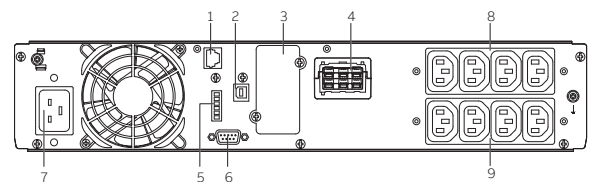


Rear view

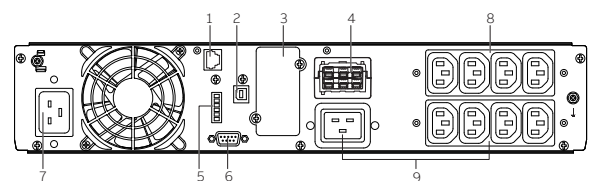
UPS PowerValue 11RT G3 LIB 1/1.5 kVA



UPS PowerValue 11RT G3 LIB 2 kVA



UPS PowerValue 11RT G3 LIB 3 kVA



No.	Description
1	EBM auto detection
2	USB
3	Slot Card Box
4	EBM Connector
5	RPO/Dry in/Dry out
6	RS 232
7	Input socket (1 k/1.5 k: 10A, 2 K/3K: 16 A)
8	Programmable output outlets (1-3 kVA: 10 A)
9	Output outlets (1-2 kVA: 10 A; 3 kVA: 10 A+16 A)

8 PowerValue 11/31/33T G2 10–20kVA

Uninterrupted Power. Unmatched Reliability.
Future-Ready Performance.



Seamless Power Protection for Mission-Critical Equipment

The PowerValue 11/31/33T G2 UPS ensures your operations never skip a beat. With its advanced double-conversion technology, it continuously cleans and stabilizes incoming power, delivering pristine AC electricity to your equipment. Even during outages, the transition to battery power is instant and seamless—zero downtime, zero disruptions.

Key Features at a Glance:

- **Always-On Power:** Instant battery backup during outages.
- **Energy saving:** Up to 96% in online mode and 98% in ECO mode could reduce energy waste during running.
- **Global Accessibility:** Touch-enabled LCD with 7 selectable languages.

Secure your critical systems with the ABB PowerValue 11/31/33T G2 10-20kVA UPS, engineered for reliable power protection against outages and surges. This scalable 10-20kVA solution offers flexible controls, customizable configurations, and energy-efficient performance—ensuring seamless uptime for demanding environments. Trust ABB's innovation to keep operations running smoothly.

Engineered for Simplicity & Intelligence

1. Constant Voltage & Frequency (CVCF) Mode

Ensure flawless power quality for sensitive equipment. The CVCF mode eliminates fluctuations, shields against grid disturbances, and guarantees stable voltage/frequency output. Simply select the mode via the intuitive LCD interface—installation is plug-and-play.

2. Cold Start Capability

Start your UPS even during a blackout. Ideal for emergencies, this feature lets you power up critical systems directly from batteries, helping you diagnose power supply issues swiftly.

3. Remote Power Off (RPO)

Enhance safety with full disconnection of AC/DC power sources. Restore operations effortlessly by resetting the RPO connector and pressing the power button—your system reboots seamlessly.

4. Adaptive Cooling

Smart fan speed control optimizes energy use while maintaining safe operating temperatures, reducing power costs without compromising reliability.

5. Scalable Power Solutions

Need more capacity or redundancy? Parallel up to 3 units effortlessly using built-in hardware—no extra components required. Grow your power infrastructure as your business expands.

Built Smarter, Designed to Last

The PowerValue 11/31/33T G2 10–20kVA UPS isn't just built to protect your equipment—it's engineered to thrive in the most demanding environments while delivering long-term value. Here's how:

Wide Input Tolerance: Stability in Chaos

Not all power grids are created equal. The PowerValue G2 UPS excels in regions with erratic voltage or unstable frequencies (40–70Hz input range), automatically filtering out surges, sags, and noise. By intelligently staying in bypass or normal mode during minor fluctuations, it reduces unnecessary battery cycles. This not only extends battery lifespan by up to 30% but also ensures your critical systems stay online longer during prolonged grid instability.

Modular Design: Effortless Maintenance, Zero Hassle

Time is money, and downtime is unacceptable. The UPS's modular designed architecture means you can replace or upgrade parts like power modules, batteries, or fans, to have less MTTR on site.

Superior Efficiency & Flexibility:

Power Meets Precision

- **95–96% Energy Efficiency:** Outperform competitors with industry-leading efficiency, slashing energy waste and cooling costs. This translates to lower electricity bills and a greener footprint—ideal for eco-conscious organizations.
- **Adjustable Charging Current (Up to 13A):** Tailor battery charging to your needs via the intuitive LCD interface. Optimize charging speeds for fast recovery during frequent outages or dial it back to extend battery longevity in stable environments.
- **Backfeed Protection (BF Models):** Prevent dangerous reverse power flow with built-in safeguards, ensuring compliance with safety standards and protecting both your equipment and personnel.

Technical Highlights: Engineered for Excellence

- **Input/output Flexibility:** Flexible to select 1:1, 3:1 and 3:3 phase input/output from LCD on site, without derating on 3:1 and 3:3 mode.
- **Dry Contact Support:** Integrate effortlessly with building management systems, fire alarms, or SCADA systems using 230V AC or 48V DC dry contacts.
- **Powerful charger:** Up to 13A charger current brings shorter recharging time.

Network interface card

Enables real-time monitoring of your UPS system via a standard web browser or by using the included monitoring software. ABB's monitoring devices provide real-time visibility of the condition of your power equipment and help solve problems before they become critical.

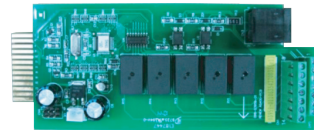
Supported models

Network Management Card (NMC)	Modbus Card (Modbus)	Temperature and humidity sensors (EMP)
		

Relay interface card

Provides contact closures for remote monitoring of alarm conditions of PowerValue 11/31/33T G2 10–20kVA UPS systems. The card is user-installable, hot-swappable and enables advanced communication between the UPS and the computer.

—
01 Relay card with potential-free contacts (AS400)



Models

NMC Card	4NWP100110R0001
Modbus Card	4NWP104039R0001
EMP	4NWP104040R0001
AS400 Card	4NWP100120R0001

Monitoring software

This is an advanced UPS management software suite that allows remote control and monitoring of UPS equipped with network interface cards in a LAN or Internet environment. It can manage a single or multiple UPSs and prevent data loss from a power outage by programming a safe system shutdown. The software is included with the NMC adapter.

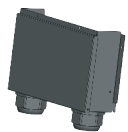
Serial Communication Cable

- RS232 cable



UPS hard-wiring installation

- Gland Kit



Rear view





—
abb.com/ups



© Copyright 2025 ABB. All rights reserved.
Specifications subject to change without notice.