



REHLKO *PW* 5000/TP

Three-phase uninterruptible power supply

(10–50 kVA)

Parallelable up to 400 kVA / 360 kW

Technical Specification

Document Control

ISSUE	DATE	REVISION SUMMARY
TS_720_01	02/08/2023	Rebranding to KUP International Version
TS_720_02	27/08/2024	Pollution degree added, X2 voltage ratings updated
TS_720_03	24/11/2025	Overload capabilities and input THDi updated
TS_720_04	24/04/2026	Rebranding to Rehlko

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Rehiko PW 5000/TP SYSTEM DESCRIPTION

The availability of protected and continuous power is essential in today's dynamic IT and process-related environments, where demands can change rapidly through the introduction of new server technologies, migration and centralisation. In environments such as these, not only must the power protecting equipment be reliable but it must also be resilient and easily adaptable to suit changing load requirements – attributes that are readily apparent in the Rehiko PW 5000/TP series Uninterruptible Power Supply (UPS).

The Rehiko PW 5000/TP represents a completely new generation of mid-range, 3 phase UPS systems, incorporating the latest technological developments in power engineering. Its advanced double conversion, Voltage and Frequency Independent (VFI), topology fully satisfies the highest availability and environmentally-friendly requirements compliant with EN62040-1 (VFI-SS-111) standards. High reliability, upgrade ability, low operating costs and excellent electrical performance are just some of the highlights of this innovative UPS solution.

The Rehiko PW 5000/TP is designed to respond to the most stringent safety, EMC and other important UPS standards. Rehiko PW 5000/TP is a stand-alone UPS module available in seven power ranges: 10, 15, 20, 25, 30, 40 and 50 kVA.

Each Rehiko PW 5000/TP module can operate as a stand-alone UPS, or up to 20 units can be connected in parallel to operate as a multi-module UPS system. A parallel system configuration is generally chosen either to increase the system's total output power capacity, or to provide module redundancy to enhance the overall system reliability.

When operating in a parallel system, each UPS module can assume the paralleling control 'leadership' role which avoids a single point of failure in the parallel chain and ensures the highest level of reliability.

Although the UPS single/multi configuration can be modified in the field it is generally specified on ordering so that the module can be configured and fully tested in the factory prior to despatch.

The most demanding IT infrastructures begin with low power requirements which gradually increases as it builds up to full capacity. To avoid putting the load at risk, it is essential to be able to increase the amount of available power as the infrastructure grows. The modular design of the Rehiko PW 5000/TP system allows the parallel configuration to be expanded to cater for increasing load demands without interrupting the load or temporarily transferring it to an unprotected bypass supply.

This Technical Specification provides detailed technical information on the mechanical, electrical and environmental performance of the Rehiko PW 5000/TP that can support and give answers to tender and end user requirements.

KEY FEATURES	
Best-in-class efficiency	Energy-Operational cost savings (TCO)
Compact size, small foot print	Expensive floor space savings
Blade-server-friendly power; full power from 0.9 lead to 0.73 lag	No de-rating required with leading PF loads
Very low input current harmonic distortion THDi < 3% @100% load	PW 5000/TP Gen-set power and installation cost savings
Input Power Factor near unity	Cost savings during installation and the entire life cycle (TCO)

GENERAL SPECIFICATIONS

MECHANICAL CHARACTERISTICS		Module Rating (kVA)						
		10	15	20	25	30	40	50
UPS CABINET A (without battery enclosure)								
Dimensions (WxHxD)	mm	345 x 720 x 710						
Weight without battery	kg	60	62	64				
Weight with 48x7/9Ah battery	kg	180	182	184				
Weight with standard packaging	kg	+4						
Colour		Black (RAL 9005)						
UPS CABINET B (without battery enclosure)								
Dimensions (WxHxD)	mm	345 x 1045 x 710						
Weight without battery	kg	88	90	92	94			
Weight with 96x7/9Ah battery	kg	328	330	332	334			
Weight with standard packaging	kg	+5						
Colour		Black (RAL 9005)						
UPS CABINET C (without battery enclosure)								
Dimensions (WxHxD)	mm				440 x 1420 x 910			
Weight (7/9Ah cab without battery)	kg				151	160	165	170
Weight (28Ah cab without battery)	kg				135	145	150	155
Weight with 144x7/9Ah battery	kg				540	550	555	560
Weight with 48x28Ah battery	kg				605	615	620	625
Weight with standard packaging	kg				+5			
Colour					Black (RAL 9005)			

INPUT CHARACTERISTICS		Module Rating (kVA)						
		10	15	20	25	30	40	50
Input Voltage	V	3x380/220V+N, 3x400V/230V+N, 3x415/240V+N						
Input Voltage Tolerance (ref to 3x400/230V) for Loads in %:	V	(-10%/+15%) 3x360/207 V to 3x460/264 V for <100% load (-20%/+15%) 3x320/184 V to 3x460/264 V for < 80% load (-30%/+15%) 3x280/161 V to 3x460/264 V for < 60% load						
Input Frequency	Hz	35 - 70						
Input Power Factor		PF=0.99 @ 100% load						
Overvoltage Category		II (2500Vpk)						
Backfeed Protection		Optional						
Inrush Current	A	max. In						
Input Distortion THDi		Sine-wave THDi < 3.0% @ 100% load (Input THDv <2%; tolerance +0.3%)						
Max. Input Power with rated output power and charged battery (output pf = 0.9)	kW	9.6	14.4	19.1	23.9	28.7	38.3	47.9
Max. Input Current with rated output power and charged battery (output pf = 0.9)	A	13.9	20.8	27.8	34.7	41.6	55.5	69.4

INPUT CHARACTERISTICS		Module Rating (kVA)						
		10	15	20	25	30	40	50
Max. Input Power with rated output power and discharged battery (output pf = 0.9)	kW	10.5	15.7	21	26.2	31.4	41.9	52.4
Max. Input Current with rated output power and discharged battery (output pf = 0.9)	A	15.2	22.8	30.4	37.9	45.5	60.7	75.9

OUTPUT CHARACTERISTICS		Module Rating (kVA)							
		10	15	20	25	30	40	50	
Output Rated Power	kVA	10	15	20	25	30	40	50	
Output Rate Current (In) @ rated power in kVA and @ 400 V	A	14.4	21.7	28.9	36.1	43.3	57.7	72.2	
Output Rated Power (0.9 pf)	kW	9	13.5	18	22.5	27	36	45	
Output Rate Current (In) @ rated power in kW and @ 400 V	A	13	19.5	26	32.5	39	52	65	
Output Rated Voltage	V	3x380/220V or 3x400/230V or 3x415/240V							
Output Voltage Stability	%	Static: < ±1% Dynamic (Step load 0%-100% or 100%-0%) < ±4%							
Output Voltage Distortion	%	With Linear Load < 2% With Non-linear Load (EN62040-3:2001) < 4%							
Output Frequency	Hz	50 Hz or 60 Hz							
Output Frequency Tolerance	Deg	Synchronized with mains < ±2% (selectable for bypass operation) or < ±4% Free running ±0.1%							
Bypass operation		At input voltage of 3x400 V ±15%, or 196 V to 264 V ph-N							
Permissible Unbalanced Load (All 3 phases regulated independently)	%	100%							
Phase Angle Tolerance (With 100% Unbalanced load)	Deg	±0 deg.							
Overload Capability on Inverter @ 0.9 p.f	%	110% load 5 min. 125% load 20 Sec.				110% load 10 min. 125% load 1 Min			
Output short capability (RMS) 40mS	A	3.0 x In	2.1 x In	2.2 x In	2.5 x In	2.1 x In	2.3 x In	2.6 x In	
Bypass Short circuit capability	A	10 x In RMS for 10mS							
Crest - Factor		3: 1							

HEAT DISSIPATION (Non-linear Loads)		Module Rating (kVA)						
		10	15	20	25	30	40	50
Heat Dissipation with 100% Non-linear Load per range (EN 62040-3)	W	600	900	1100	1400	1700	2300	2900
Heat Dissipation with 100% Non-linear Load per range (EN 62040-3)	BTU/h	2048	3072	3754	4778	5802	7850	9898
Airflow (25°C - 30°C) with 100% Non-linear Load per range (EN 62040-3)	m³/h	150	150	150	150	570	570	570
Heat Dissipation without load	W	120	150	150	170	250	300	350

BATTERY CHARACTERISTICS	Module Rating (kVA)												
	10		15		20		25		30	40	50		
Cabinet Type	A	B	A	B	A	B	B	C	C	C	C		
Maximum Battery Charger Current	4A						6A						
Battery Charging Curve	Ripple free; IU (DIN 41773)												
Temperature compensation ready	Standard (temp. sensor optional)												
Battery Test	Automatic and periodically (adjustable)												
Battery Type	Maintenance free VRLA or NiCd												
Min/Max Number of 12V Battery Blocks per string	24-50*		30-50*		38-50*		26-50*		18-50*		20-50*		40-50*
* Depending on the effective load in kW used by the system													

Description Cabinet Type	10kVA						15kVA									
	A			B			A				B					
Maximum Power [kW]	6	8	9	6	8	9	8	10	12	13.5	8	10	12	13.5		
Minimum number of battery blocks per string	24	30	34	24	30	34	30	38	44	48	30	28	44	48		
Maximum No. 7/ 9Ah battery blocks in cabinet	48	48	48	2x4 8	2x4 8	2x48	48	48	48	48	2x48	2x48	2x48	2x48		
Description Cabinet Type	20kVA								25kVA							
	A				B				B				C			
Maximum Power [kW]	9	12	16	18	9	12	16	18	12	16	20	22.5	12	16	20	22.5
Minimum number of battery blocks per string	28	34	42	46	28	34	42	46	26	36	44	50	26	36	44	50
Maximum No. 7/ 9Ah battery blocks in cabinet	48	48	48	48	2x4 8	2x48	2x48	2x48	2x48	2x48	2x48	2x48	3x48	3x48	3x48	3x48
Maximum No. 28Ah battery blocks in cabinet	N/A				N/A				N/A				1x48	1x48	1x48	1x48

Description Cabinet Type	30kVA				40kVA				50kVA			
	C				C				C			
Maximum Power [kW]	16	20	24	27	18	25	32	36	30	35	40	45
Minimum number of battery blocks per string	18	22	26	30	20	28	36	40	34	40	44	48
Maximum No. 7/ 9Ah battery blocks in cabinet	3x48	3x48	3x48	3x48	3x48	3x48	3x48	3x48	3x48	3x48	3x48	3x48
Maximum No. 28Ah battery blocks in cabinet	1x48	1x48	1x48	1x48	1x48	1x48	1x48	1x48	1x48	1x48	1x48	1x48

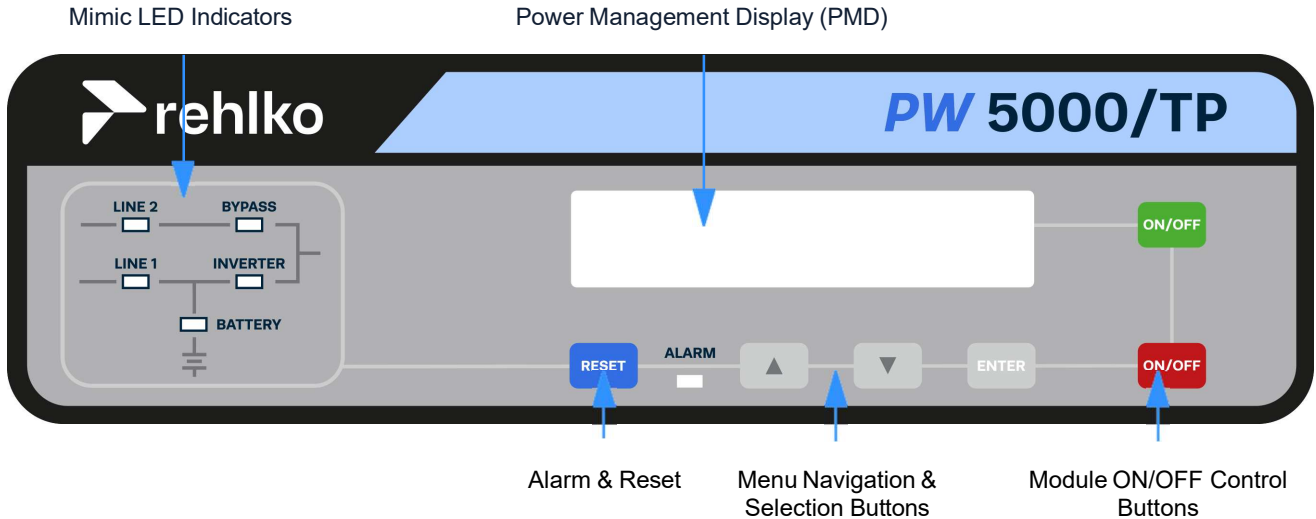
COMMUNICATION OPTIONS	Module Rating (kVA)						
	10	15	20	25	30	40	50
	STANDARD ITEMS						
Power Management Display (PMD)	LCD display and mimic diagram showing UPS operational status						
JD1 – RS232 on Sub-D9 port	For monitoring and integration in network management						
X1 – Customer Interfaces: Inputs (DRY PORTS)	<ul style="list-style-type: none"> 1 Remote Shut down [EMERGENCY OFF (Normally closed)] 1 GEN-ON (Normally open) 1 Programmable Customer's Inputs (Normally open) 1 Battery Temperature Sensor for enhanced battery charging control 1 12Vdc source (max. 250mA) to supply remote monitor 						
JR1 – RJ45 port	For multidrop purpose (optional)						
	OPTIONAL ITEMS						
Relay card +USB Including: X2 – Customer Interfaces: Outputs (DRY PORTS)	<ul style="list-style-type: none"> Common Alarm Load on Bypass Battery Low Load on Inverter Mains Failure 						
RS232 on USB Port	For remote signalling and automatic computer shutdown						
SNMP Card (slot already included)	For monitoring and integration into network management						

ENVIRONMENTAL		Module Rating (kVA)						
		10	15	20	25	30	40	50
Audible Noise with 100% / 50% Load	dBA	61/55	61/55	71/65	71/65	71/65	71/65	71/65
Operating temperature	°C	0 - 40						
Battery temperature	°C	20						
Battery Storage Time		Max. 6 months						
Max. altitude (above sea level)	m	1000m (3300ft) without de-rating						
De-rating factor for use at altitudes above 1000m sea level according (IEC 62040-3)	ALL MODULES							
	Metres above sea level (m / ft)				De-Rating Factor for Power			
	1500 / 4850				0.95			
	2000 / 6600				0.91			
2500 / 8250				0.86				
3000 / 9900				0.82				
Relative Air-humidity		Max. 95% (non-condensing)						
Positional Clearances		<p>Front: A minimum of 900mm should be allowed for free passage.</p> <p>Side: 600mm left and right side access is required for service.</p> <p>Rear: A minimum of 200mm is required for cooling air circulation and the unit should be cabled such that it can be pulled forward to allow 600mm rear clearance for service/maintenance.</p>						
Accessibility (Operator)		10kVA – 25kVA in type A or B cabinets require front/rear access 25kVA – 50kVA in type C cabinets require front access only						
Input and Output Power Cabling		10kVA – 25kVA in type A or B cabinets are cabled at the rear 25kVA – 50kVA in type C cabinets are cabled at the front						
Efficiency AC-AC up to (at pf=1.0) (depending on UPS power)	Load:	100%	75%	50%	25%			
	Efficiency	95.5%	95.5%	95%	94.5%			
ECO Mode efficiency at 100% load	%	98%						
Pollution Degree		2						

STANDARDS		Module Rating (kVA)						
		10	15	20	25	30	40	50
Safety		IEC/EN 62040-1-1, IEC/EN 60950-1						
Electromagnetic Compatibility		IEC/EN 62040-2, IEC/EN61000-3-2, IEC/EN61000-6-2,						
EMC Classes C2 domestic or industrial In < 16A C3 industrial In >16A		C2	C3					
Performance		IEC/EN62040-3						
Product certification		CE UKCA						
Degree of protection		IP 20						

COMMUNICATION OPTION DETAILS

Power management display (PMD)



The user-friendly Power Management Display provides access to all monitoring information and operator controls.

Mimic Diagram

The mimic diagram contains multi-coloured LEDs that change between Green, Red and Off to indicate the UPS operation and power flow status.

LEDs LINE1 and LINE2 indicate the availability of the input mains and bypass mains power supplies respectively, and are both Green during normal operation.

The INVERTER and BYPASS LEDs indicate which of the two power sources is providing the critical load supply. These LEDs illuminate Green to indicate which is the active supply source.

The BATTERY LED indicator is a solid Green when the battery is being charged and flashes when the battery is discharging – e.g. when it is providing the load power following a mains failure.

The ALARM LED, located at the lower-centre area of the PMD, is a visual indication of any monitored internal or external alarm condition. When activated, it is accompanied by an audible alarm that can be cancelled by pressing the RESET button.

LCD Display Panel

The 2 x 20 character multi-function LCD Display is menu-driven using the UP, DOWN and ENTER keys. It provides a simple communications interface that enables the operator to monitor important UPS operating parameters and alarm warnings, and effect various control operations such as transferring the load between the inverter and bypass.

LCD Display Panel summary:

- Displays the input and output voltage, current, frequency and power
- Displays an 'Event register' which stores a date/time stamped history of the 99 most recent alarms
- Enables battery run time monitoring
- Enables selection of commands such as UPS Start-up and Shut-down, Load transfer from inverter to bypass and vice-versa
- Provides diagnostic facilities (service mode only)
- In conjunction with the operator keys, provides UPS adjustments and testing facilities (service mode only)

JD1 Smart Port – Serial RS 232 and USB Port

JD1 is a standard D-Type, 9-pin, female socket, and the USB is a standard USB port.

The SMART PORT is an intelligent RS 232 serial port that allows the UPS to be connected to a computer. When used in conjunction with the optional SMART PORT software, WAVEMON, it enables the computer to continuously monitor the mains voltage and UPS-status, and display a message in the event of any UPS system changes.

X1 Dry Port (volt-free contacts)

All the input and output interface connections to X1 are made to Phoenix terminals (cable 0.5mm²) Connection of Remote Shut down facilities, Generator Operation, Customers specials.

Terminal	Contact	Signal	Function
X1/1 X1/2	In Gnd	+12Vdc Gnd	GENERATOR OPERATION (NC = Generator ON)
X1/3 X1/4	In Gnd	+12Vdc Gnd	Customer IN 1 (Function on request, to be defined)
X1/5 X1/6	In Gnd	+3.3Vdc Gnd	BATTERY TEMPERATURE If connected, the battery charger current is temperature dependent
X1/7 X1/8	In Gnd	+12Vdc Gnd	REMOTE SHUTDOWN Do not remove the factory mounted bridge until an external remote shut down is connected
X1/9 X1/10	In Gnd	+12Vdc Gnd	12Vdc SOURCE Max 200mA load (e.g. used to power remote indicator panels)

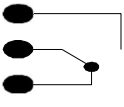
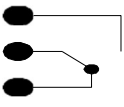
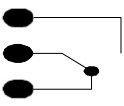
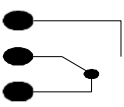
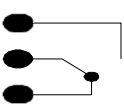
JR1 – RS485 Interface for multidrop

The Computer Interface JR1 is an intelligent RS485 serial port that allows system information to be gained from all modules that are connected in parallel using the Multidrop connection kit. The connector JR1 is a standard RJ45 socket.

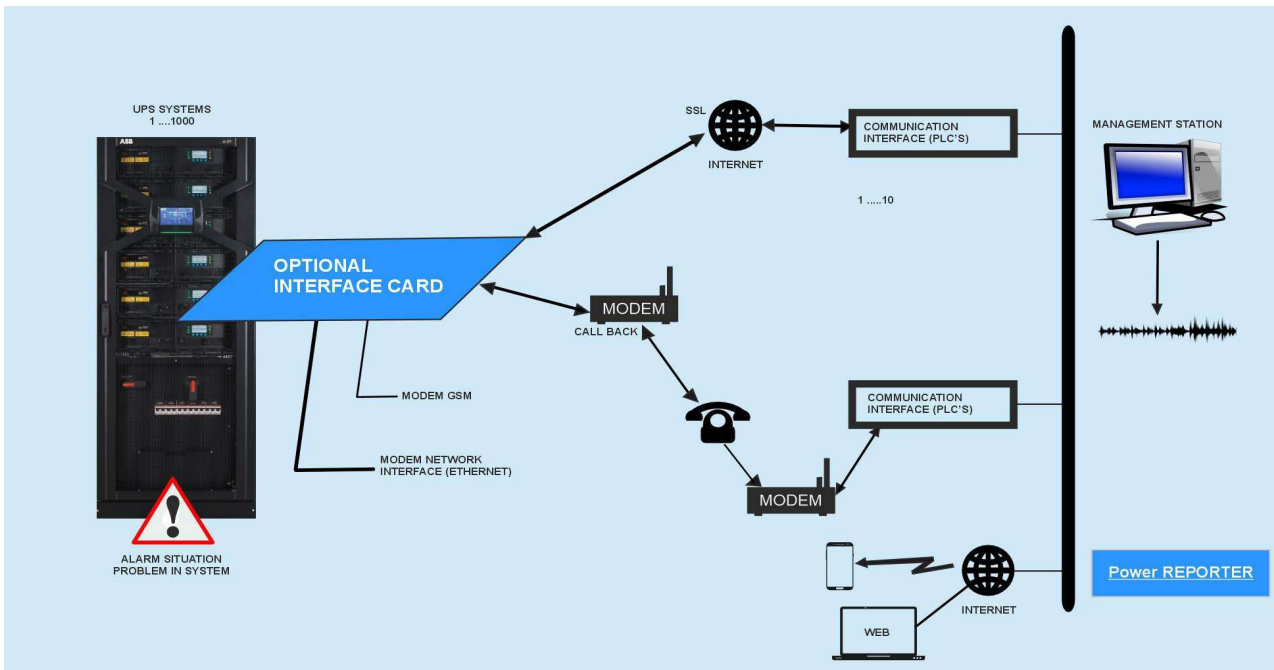
X2 Dry Port – Optional output interfaces terminal block (X2)

All the input and output interface connections to X2 are made to Phoenix terminals (cable 0.5mm²)

X2 provides status and alarm signal outputs that can be used to initiate orderly shutdown of servers, AS400 or automated building management systems. All signals are provided via voltage free contacts are rated 60 VAC / 500 mA; 30VDC/1A; 60VDC/0.3A maximum.

Pin	Contact	Signal		Function
1		Alarm	MAINS_OK	Mains Present
2				Mains Not Present
3				Common
4		Message	LOAD_ON_INV	Load On Inverter
5				Load Not On Inverter
6				Common
7		Alarm	BATT_LOW	Battery Low
8				Battery OK
9				Common
10		Message	LOAD_ON_MAINS	Load On Mains
11				Load Not On Mains
12				Common
13		Alarm	COMMON_ALARM	Common Alarm
14				No Alarm Condition
15				Common

Modem/Ethernet card / PowerREPORTER™ management software



PowerREPORTER™ is a remote monitoring and management service which is a part of the premium power protection concept. Two solution cards are available to enable connection between the UPS and the outside world: 'Modem/ Ethernet' or 'Modem/GSM'.

PowerREPORTER™:

- Provides affordable, continuous monitoring over mission-critical facilities and offers peace-of-mind by detecting and warning of any potential system problems before they become a crisis:
- Acquires key performance parameters and productivity information in real-time to enable you to better understand machine performance and faster troubleshoot downtime events.
- Gives total transparent information concerning all actions performed on the system, such as all critical status changes, coordination of equipment service, reporting of all alarms with priorities.

Key Features

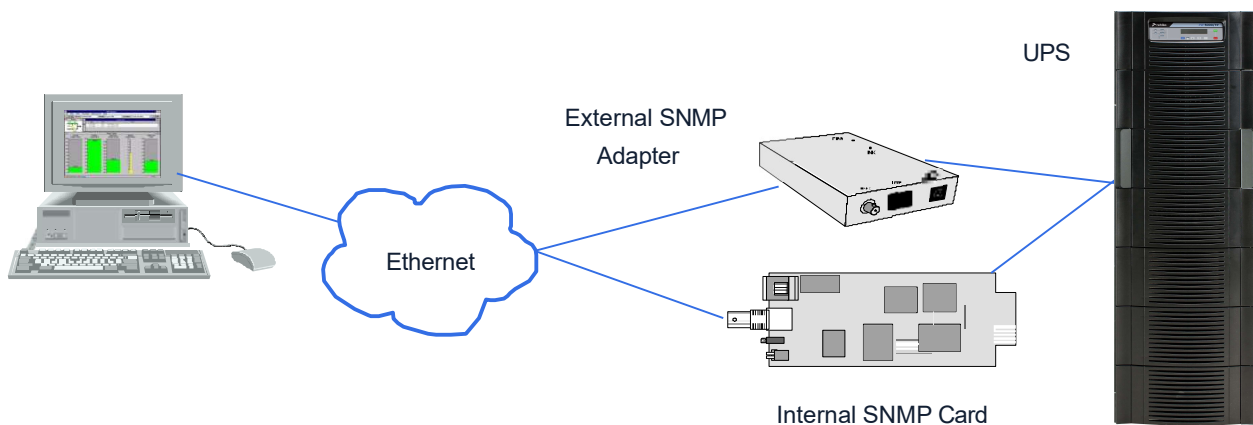
- Redundant and secure communication
- Alarm acknowledgment
- Priority driven Management (with escalation)

Comprehensive Management System

- Reception and management of alarm calls from UPS
- Storage of UPS Data in a database exportable in a CSV-format for easy handling in Excel
- Unlimited number of UPS that can be managed
- User administration with passwords and permission-level
- Administration of Log file
- Data logging with statistical analysis and diagnostics, report
- Visualization

- Current status (“single” and “parallel” operation)
- Measured values for single or three phase
- Recording function including graphs with zooming capabilities for selected measured values
- Display of event log file
- Display of UPS Parameters
- Web Server functionality, for data access from any Web Browser

SNMP card/adaptor for network management/remote monitoring



The Simple Network Management Protocol (SNMP) is a world-wide standardised communication-protocol that is used to monitor any device in a network via a simple control language. The UPS-Management Software (WAVEMON) provides data in this SNMP format with its internal software agent and can be used with any SNMP compatible operating system.

- We offer our software with SNMP functionality together with NetWare, OS/2, all Windows NT systems on INTEL and ALPHA.
- There are two types of SNMP-Adaptors available: External SNMP-Adaptor and Internal SNMP-Card (both have the same functionality). Both can manage a parallel system (N modules) and return either global values – which are consistent for the whole parallel system – or specific values from the individual modules.
- The SNMP adaptor requires a PC with terminal connections, and for normal operation at least one network connection (Ethernet) is also required.

INSTALLATION PLANNING

The following *guidelines* should be taken into account when planning a suitable UPS location and environment.

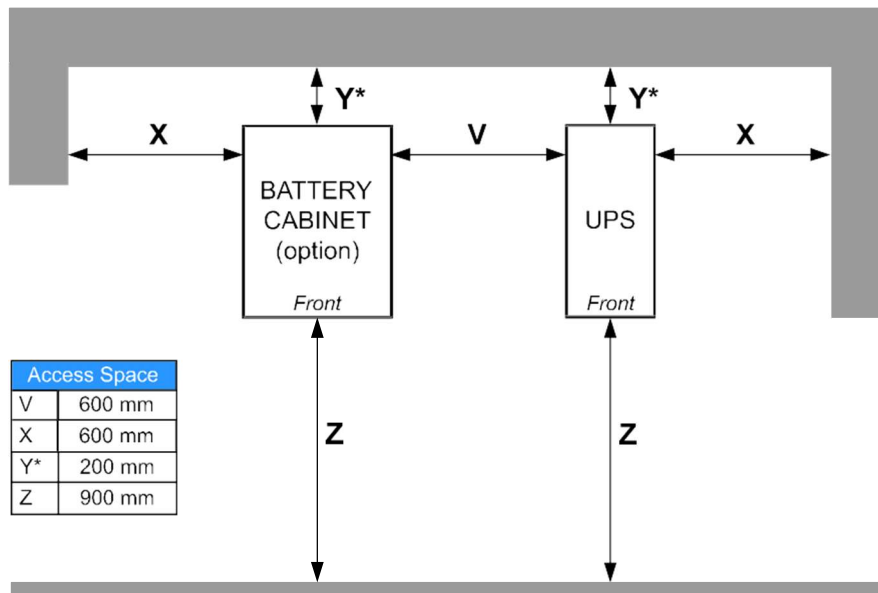
Location considerations summary

- The equipment must be installed and transported in a upright position
- The floor at the installed location and en-route from the off-loading point must be able to safely take the weight of the UPS and battery equipment
- The floor material where the UPS is to be located should be non-flammable
- Local fire protection standards must be respected
- Ensure that appropriate power supplies are available and that UPS cabling can be performed easily
- The location must be vibration free
- If the UPS is to be installed in bayed enclosures, partition walls must be installed.

Environmental considerations summary

- Avoid high ambient temperature, moisture and humidity. Humidity (< 90% non-condensing) and temperature (+15°C / +25°C) are within prescribed limits
- A temperature of 20°C is recommended to achieve a long battery life.
- Any prescribed air cooling flow must be available. Ensure the air conditioning system can provide a sufficient amount of air cooling to keep the room at, or below, the maximum desired temperature.
- Ensure no dust or corrosive/explosive gases are present

CLEARANCES



The above diagram illustrates the recommended clearances to be provided around the UPS and optional Battery Cabinet. Please read the following notes for clarification.

Notes

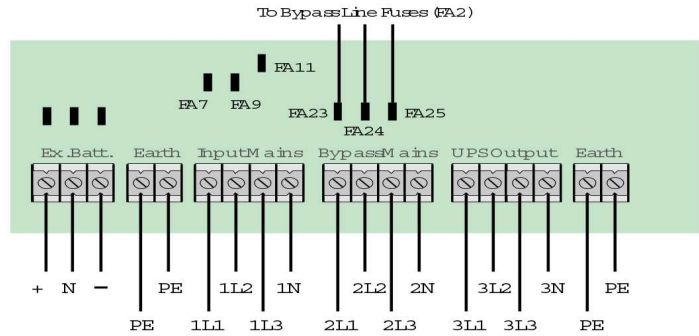
1. The minimum 200mm space shown at the rear of the UPS [Y] is required to allow adequate cooling air flow; however, 'A' and 'B' UPS cabinets are cabled from the rear and the UPS power switches and fuses are located on the back panel. When installing 'A' and 'B' UPS cabinets you should allow sufficient slack in the cabling to pull the UPS cabinet forward or otherwise install the UPS with sufficient rear clearance to allow cable and switch access.

- The above diagram shows 600mm clearance [V] between the UPS and optional Battery Cabinet. This is necessary to gain side access to the UPS for service repair. In the case of a type 'A' or 'B' UPS cabinet, if the cabling is sufficient to allow the cabinet to be pulled forward clear of the Battery Cabinet (see note 1 above) then it is not necessary to observe clearance [V], and the UPS and Battery Cabinets can be located immediately adjacent to each other.

UPS POWER CABLING

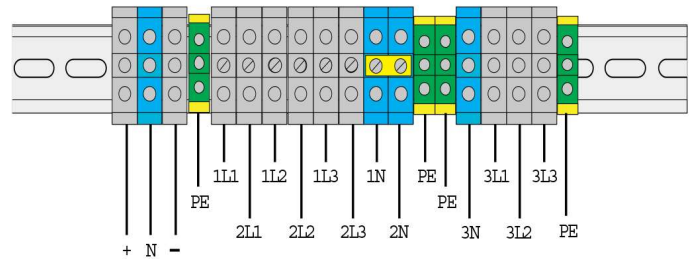
Cabinets 'A' & 'B' (10-25kVA)

All power cables are connected to terminals on the bottom of the UPS Power Board accessed through a removable panel on the lower back of the UPS.



Cabinet 'C' (25-50kVA)

All power cables are connected to terminal blocks mounted on a DIN rail located in the lower front of the UPS.



Terminal Connections	Battery (+ / N / -)	Input Bypass 2L1, 2L2, 2L3 +N	Input Rectifier 1L1, 1L2, 1L3 +N	Output load 3L1, 3L2, 3L3 +N	Tightening Torque
Cabinets 'A' & 'B' (10-25kVA) (PE)	3 x 16 mm ² 1 x 16 mm ²	4 x 16 mm ² 1 x 16 mm ²	4 x 16 mm ² 1 x 16 mm ²	4 x 16 mm ² 1 x 16 mm ²	1.5 Nm 1.5 Nm
Cabinet 'C' (25- 30kVA) (PE)	3 x 35 mm ² 1 x 16 mm ²	4 x 16 mm ² 1 x 16 mm ²	4 x 16 mm ² 1 x 16 mm ²	4 x 16 mm ² 1 x 16 mm ²	1.5 Nm 1.5 Nm
Cabinet 'C' (40- 50kVA) (PE)	3 x 35 mm ² 1 x 35 mm ²	4 x 35 mm ² 1 x 35 mm ²	4 x 35 mm ² 1 x 35 mm ²	4 x 35 mm ² 1 x 35 mm ²	1.5 Nm 1.5 Nm

Notes:

- Fuse and Cable recommendations to IEC 60950-1:2001
- The fuse and cable rating details in the above tables are a recommendation only.
- The UPS must be installed to prescribed IEC or local regulations (e.g. BS7671)

The UPS input/bypass terminals should be connected to the input mains/bypass supply through a LV-Distribution board and protected by a circuit breaker or fuse. This provides overload protection and also a means of isolating the UPS from the mains supply when required. Similarly, the UPS output terminals should be connected to the load equipment via a suitably fused load distribution panel.

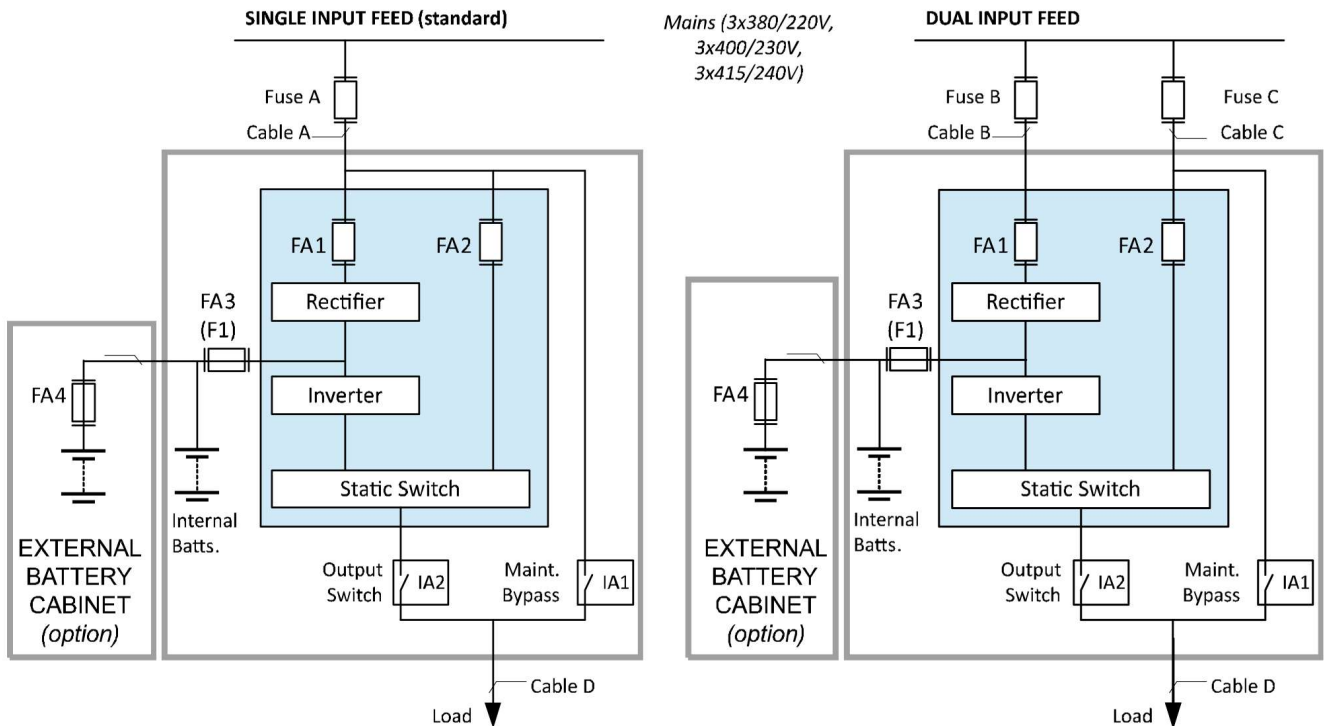
Note: It is the customer's responsibility to provide all external fuses, isolators and cables used to connect the UPS input and output power supplies.

The UPS can be wired with a 'single feed' input (standard), whereby the UPS input supply is internally connected to the UPS bypass circuit, or it can be wired with a 'dual feed' input (shown above) – where the UPS bypass circuit is connected to

a dedicated 'bypass' supply. Where a 'single feed' is used, the Input Mains and Bypass terminals are linked together on the UPS power connector blocks.

The following diagram identifies the UPS input/output cabling requirements and provides information regarding the necessary fuse and cable ratings, and cable sizing.

Fuses & Cables Quick Reference



Single input feed

Power (kVA)	Fuse A (Agl/CB) (A)	Cable A (mm ²)	Cable D (mm ²)
10	3 x 20	5 x 2.5	5 x 2.5
15	3 x 32	5 x 4.0	5 x 4.0
20	3 x 40	5 x 6.0	5 x 6.0
25	3 x 40	5 x 6.0	5 x 6.0
30	3 x 63	5 x 10	5 x 10
40	3 x 80	5 x 25	5 x 25
50	3 x 80	5 x 25	5 x 25

Dual input feed

Power (kVA)	Fuse B (Agl/CB)(A)	Cable B (mm ²)	Fuse C (Agl/CB)(A)	Cable C (mm ²)	Cable D (mm ²)
10	3 x 20	5 x 2.5	3 x 20	5 x 2.5	5 x 2.5
15	3 x 32	5 x 4.0	3 x 32	5 x 4.0	5 x 4.0
20	3 x 40	5 x 6.0	3 x 40	5 x 6.0	5 x 6.0
25	3 x 40	5 x 6.0	3 x 40	5 x 6.0	5 x 6.0
30	3 x 63	5 x 10	3 x 63	5 x 10	5 x 10
40	3 x 80	5 x 25	3 x 80	5 x 25	5 x 25
50	3 x 80	5 x 25	3 x 80	5 x 25	5 x 25

1. The fuse and cable rating details in the above tables are a recommendation only.
2. The UPS must be installed to prescribed IEC or local regulations (e.g. BS7671).
3. External DC Cables and Battery fuses are bespoke to the installation.