



Power supplies and UPS
**For superior
system availability**

POWER for superior system availability

Our POWER products supply your application with leading technology and high quality.

Power supplies, DC/DC converters, redundancy modules, and uninterruptible power supplies are tailored in terms of their functionality and design to the requirements of various different industries and always offer the ideal solution.

With our QUINT, TRIO, UNO, MINI, and STEP product ranges, you are optimally equipped to handle competitors on an international scale.

Choose from our wide range.



**SFB
TECHNOLOGY**

**Power supplies and
DC/DC converters**

SFB (selective fuse breaking) technology:

- Six times the nominal current for 12 ms
- Reliably switches off faulty current paths in the event of a short circuit
- Important system parts remain in operation without any interruption

For more information, refer to page 6 and onwards.



Redundancy modules

ACM (auto current balancing) technology:

- Even distribution of the load for redundant power supplies
- Low thermal load for both power supplies
- Service life of the redundant solution is doubled

For more information, refer to page 26 and onwards.



Uninterruptible power supplies

IQ technology:

- Intelligent battery management
- Optimizes and keeps you informed of the remaining runtime, state of charge, and service life of the power storage
- Optimized charging characteristic for maximum service life
- Communication with higher-level controllers

For more information, refer to page 30 and onwards.

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Power supplies – a comparison of the advantages

The product ranges differ with regard to their design, performance, and functionality.

Select the ideal solution based on your requirements:

- **QUINT POWER**
Maximum functionality
- **TRIO POWER**
Robust standard functionality
- **UNO POWER**
Compact basic functionality

The product range is supplemented with types tailor-made for specific applications:

- **MINI POWER** for measurement and control technology
- **STEP POWER** for installation distributors





IQ
TECHNOLOGY

SFB
TECHNOLOGY

ACB
TECHNOLOGY



**1000 W
40 A**

**1000 W
40 A**

STEP POWER	MINI POWER	UNO POWER	TRIO POWER	QUINT POWER	
•	•	•	•	•	Worldwide use thanks to the wide range input and international approval package
•	•	•	•	•	Maximum operating time thanks to high MTBF > 500,000 h at 40°C
•	•	•	•	•	Can be switched in parallel for increased performance and redundancy
•	•	•	•	•	Outdoor installation permitted thanks to wide temperature range from -25°C ... +70°C
		•	•	•	Three-phase devices error-free operation, even if one phase fails permanently
		•	•	•	Active function monitoring by means of switching output for remote diagnostics
		•			Quick installation thanks to tool-free push-in connection
		•	•	•	Reliable starting of difficult loads with the dynamic power reserve
		•		•	Easy system extension with the POWER BOOST static power reserve
			•		Preventive function monitoring indicates critical operating states before errors occur
			•		Fast tripping of circuit breakers thanks to SFB technology

QUINT POWER power supplies for superior system availability thanks to SFB technology

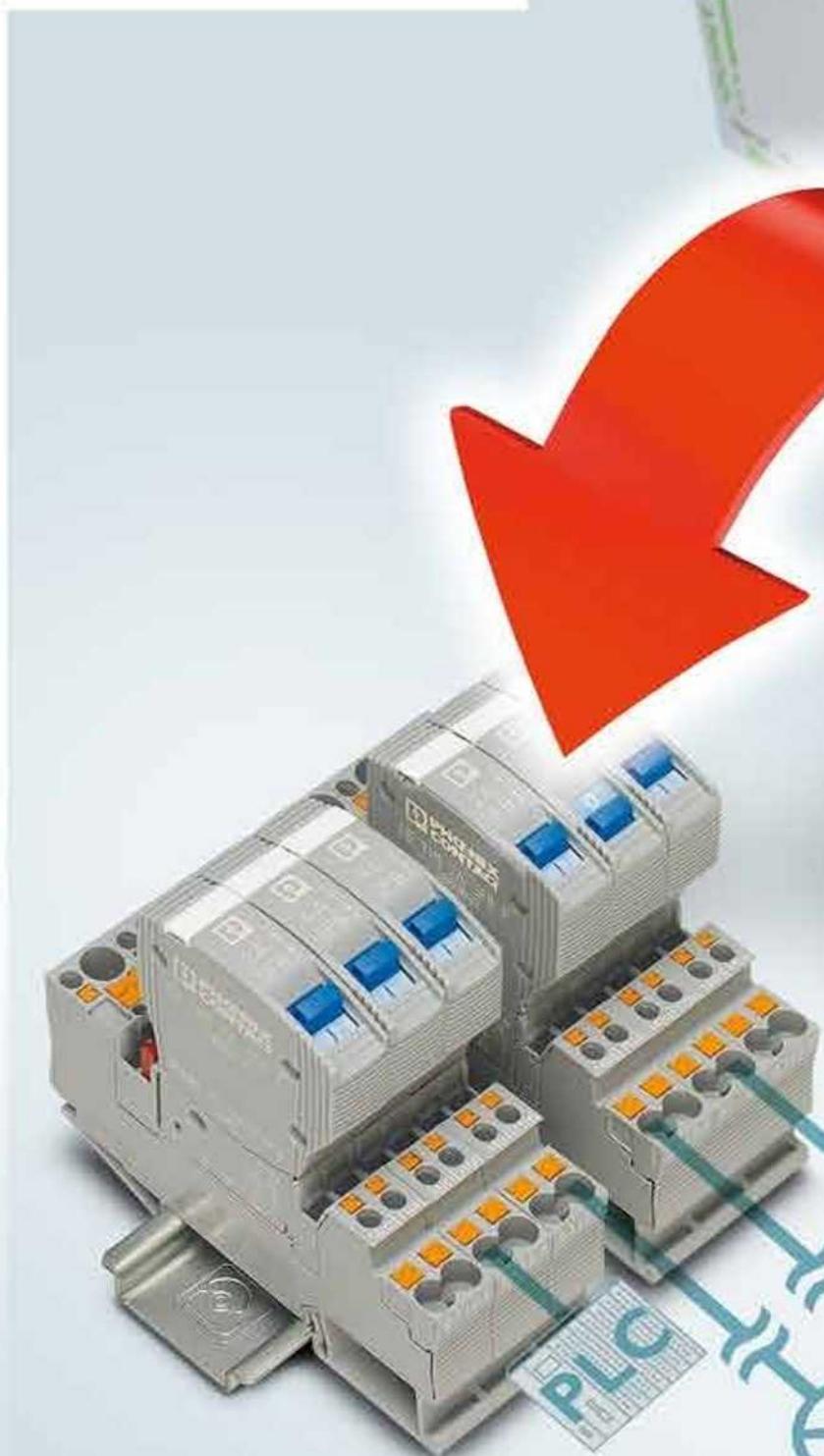
Compact power supplies and DC/DC converters from the QUINT POWER range maximize the availability of your system.

Even standard circuit breakers can be tripped reliably and quickly with SFB (selective fuse breaking) technology and six times the nominal current for 12 ms.

Faulty current paths are switched off selectively, the fault is located, and important system parts remain in operation.

Comprehensive diagnostics are provided through constant monitoring of the output voltage and output current. This preventive function monitoring visualizes critical operating states and indicates them to the controller before errors can occur.

QUINT POWER guarantees superior system availability.





SFB
TECHNOLOGY

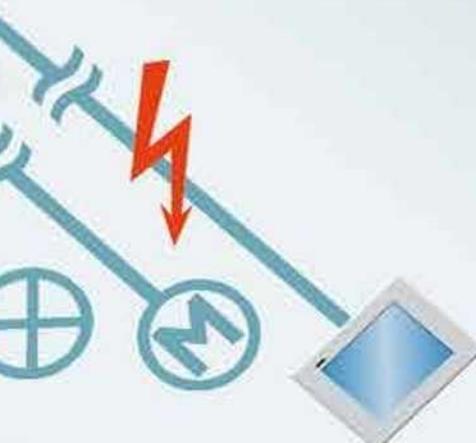
Cost-effective selective protection with SFB technology

In order to trip standard circuit breakers magnetically and therefore quickly, power supplies must be able to supply several times the nominal current for a short period. With SFB technology, which supplies up to six times the nominal current for 12 ms, a dynamic power reserve is available.

Example: frayed display cable – the fuse trips, the lower-level display is dark. The controller, sensors, and actuators continue to operate without interruption – production continues.

The maximum cable lengths are described in the configuration matrix, which is available as a free download on the Phoenix Contact website under “Power supplies with maximum functionality”.

In addition, tailor-made thermomagnetic circuit breakers, which trip even with extremely long cables, are designed specifically for SFB technology.



QUINT POWER power supplies – maximum functionality

The unique SFB technology and preventive function monitoring of the QUINT POWER power supply increase the availability of your application.

- **Worldwide use**

thanks to the wide range input and international approval package

- **High operational reliability**

thanks to high MTBF > 500,000 h, long mains buffering times > 20 ms, high electric strength of single-phase devices of up to 300 V AC

- **Three-phase devices**

enable error-free operation, even in the event of a permanent phase failure, high surge resistance of up to 6 kV thanks to integrated gas-filled surge arrester

- **Comprehensive approvals,**

e.g., semiconductor production:

SEMI F47-0706

Shipbuilding:

GL, ABS, BV, LR, NK, DNV, RINA

Medical standard: IEC 60601

DeviceNet™

ATEX





Your advantages

Fast tripping of standard circuit breakers

- Dynamic power reserve with SFB technology with up to six times the nominal current for 12 ms

Preventive function monitoring

- Indicates critical operating states before errors occur, thanks to permanent monitoring of the output voltage and output current
- Remote monitoring using active switching outputs and floating relay contact

Reliable starting of difficult loads and easy system extension

- POWER BOOST static power reserve with up to 1.5 times the nominal current permanently

Easy-maintenance connection technology

- Coded COMBICON connectors (up to and including 10 A)

Minimize installation costs

- Third negative terminal block for grounding on the secondary side

Compensation of voltage drops

- Output voltage can be set on the front
- A voltage range of 5 ... 56 V DC can be covered with three power supplies with output voltages of 12, 24, and 48 V DC

Saves over 50% space in the control cabinet

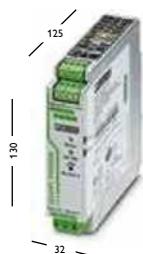
- Slim design, e.g., 40 A output current in 96 mm wide housing

Robust design

- Metal housing and wide temperature range from -25°C to +70°C
- Device startup at -40°C (type-tested)
- Devices with protective coating from -40°C to +70°C

QUINT POWER 1~

Input: 1-phase, 85 ... 264 V AC, 90 ... 350 V DC, for 24 V/40 A and 48 V/20 A: 90 ... 300 V DC

				
24 V / 3.5 A	24 V / 5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A
QUINT-PS/1AC/24DC/3.5 2866747	QUINT-PS/1AC/24DC/5 2866750	QUINT-PS/1AC/24DC/10 2866763	QUINT-PS/1AC/24DC/20 2866776	QUINT-PS/1AC/24DC/40 2866789
		48 V / 5 A	48 V / 10 A	48 V / 20 A
		QUINT-PS/1AC/48DC/5 2866679	QUINT-PS/1AC/48DC/10 2866682	QUINT-PS/1AC/48DC/20 2866695
		12 V / 15 A	12 V / 20 A	
		QUINT-PS/1AC/12DC/15 2866718	QUINT-PS/1AC/12DC/20 2866721	

QUINT POWER 3~

Input: 3-phase, 3 x 320 ... 575 V AC, 450 ... 800 V DC

			
24 V / 5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A
QUINT-PS/3AC/24DC/5 2866734	QUINT-PS/3AC/24DC/10 2866705	QUINT-PS/3AC/24DC/20 2866792	QUINT-PS/3AC/24DC/40 2866802
			48 V / 20 A
			QUINT-PS/3AC/48DC/20 2320827

Accessories

Fan for QUINT, QUINT-PS/FAN/4 2320076

With the standard power supply mounting position, the temperature range increases by 10 K (max. ambient temperature of 70°C); when the mounting position is rotated, position-dependent derating no longer applies. Tool-free mounting.

Thermomagnetic circuit breakers for QUINT

Device circuit breakers with the SFB tripping characteristic provide maximum overcurrent protection – even in large systems with long cable paths. The comprehensive product range can be found on the Phoenix Contact website under “Products/Protective devices”.

QUINT POWER power supplies for extreme requirements



Inaccessible parts of the PCB are protected by the coating, e.g., wired components (coated areas appear blue).

These power supplies in the QUINT series satisfy the most stringent requirements of sensitive loads. DC/DC converters with the same properties can be found on page 23.

For extreme ambient conditions:

- Coating on the PCB protects against dust, corrosive gases, and 100% humidity as well as failure caused by corrosion-related creepage currents and electrochemical migration
- Wide temperature range from -40°C to +70°C

For sensitive loads, e.g., in process technology: OVP (Over Voltage Protection) limits surge voltages to 32 V, also useful in redundant operation with QUINT ORING (see page 26).

QUINT POWER, coated



SFB
TECHNOLOGY

Input: 1-phase: 85 ... 264 V AC, 90 ... 410 V DC, for 1 AC / 24 V / 20 A: 90 ... 350 V DC / 3-phase: 3 x 320 ... 575 V AC, 450 ... 800 V DC

 1 AC / 24 V / 5 A QUINT-PS/1AC/24DC/5/CO 2320908	 1 AC / 24 V / 10 A QUINT-PS/1AC/24DC/10/CO 2320911	 1 AC / 24 V / 20 A QUINT-PS/1AC/24DC/20/CO 2320898	 3 AC / 24 V / 20 A QUINT-PS/3AC/24DC/20/CO 2320924
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TRIO POWER power supplies – robust standard functionality

The TRIO POWER power supplies are perfect for use in machine building. All functions and the space-saving design are tailored to the high requirements in this field. The power supply units, which feature an extremely robust electrical and mechanical design, ensure the reliable supply of all loads even under harsh ambient conditions.



Save time thanks to quick and easy installation with push-in connection

Your advantages for TRIO POWER with push-in connection

Very cost-effective

- Quick installation, thanks to tool-free push-in connection
- Slim design

Reliable starting of difficult loads

- Dynamic power reserve with 150% of the nominal current for 5 s

Robust design

- Robust electrical design with high electric strength of single-phase devices up to 300 V AC, error-free function of the three-phase modules, even if one phase fails permanently
- Robust mechanical design with vibration resistance up to 4g and shock resistance up to 30g
- High MTBF > 1 million hours
- Metal housing from 10 A and wide temperature range from -25°C to +70°C
- Device startup at -40°C (from 10 A, type-tested)



TRIO POWER push-in connection 1~

Input: 1-phase, 85 ... 264 V AC, 99 ... 275 V DC



24 V / 3 A

TRIO-PS-2G/1AC/24DC/3/C2LPS
2903147

24 DC / 5 A

TRIO-PS-2G/1AC/24DC/5
2903148

24 DC / 10 A

TRIO-PS-2G/1AC/24DC/10
2903149

24 DC / 20 A

TRIO-PS-2G/1AC/24DC/20
2903151

Certified according to UL 1310/508
Listed Class 2

TRIO POWER push-in connection 3~

Input: 3-phase, 3 x 320 ... 575 V AC, 2 x 360 ... 575 V AC, 450 ... 780 V DC



24 V / 5 A

TRIO-PS-2G/3AC/24DC/5
2903153

24 DC / 10 A

TRIO-PS-2G/3AC/24DC/10
2903154

24 DC / 20 A

TRIO-PS-2G/3AC/24DC/20
2903155

4-channel

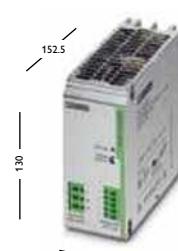
CBM E4 24DC/0,5-10A NO-R
2905743

8-channel

CBM E8 24DC/0,5-10A NO-R
2905744

TRIO POWER screw connection 1~

Input: 1-phase, 85 ... 264 V AC



12 V / 5 A

TRIO-PS/1AC/12DC/5
2866475

12 V / 10 A

TRIO-PS/1AC/12DC/10
2866488

48 V / 5 A

TRIO-PS/1AC/48DC/5
2866491

48 V / 10 A

TRIO-PS/1AC/48DC/10
2866501

24 V / 40 A

TRIO-PS/3AC/24DC/40
2866404

Accessories

Electronic device circuit breakers



4-channel

CBM E4 24DC/0,5-10A NO-R
2905743

8-channel

CBM E8 24DC/0,5-10A NO-R
2905744

... 3~

3-phase, 3 x 320 ... 575 V AC



UNO POWER power supplies – compact basic functionality

Thanks to their high power density, UNO POWER power supplies offer the ideal solution for loads up to 240 W, particularly in compact control boxes. The wide range of products covers all common voltage levels.



With nominal voltages from 5 V DC to 48 V DC, UNO POWER covers all the typical voltage levels used in the industry

Your advantages

Maximum energy efficiency

- Save energy, thanks to high efficiency of up to 94%
- Save energy, thanks to extremely low idling losses below 0.3 W

Extremely compact

- Save space in the control cabinet, thanks to the extremely high power density of 325 W/dm³, e.g., 240 W power in narrow 45 mm housing
- Housing depth of just 84 mm up to 100 W, tailored to all popular 120 mm control boxes

Outdoor installation

- Wide temperature range from -25°C to +70°C

SAVE ENERGY



UNO POWER 1~

Input: 1-phase, 85 ... 264 V AC

24 DC / 30 W UNO-PS/1AC/24DC/30W 2902991	24 DC / 60 W UNO-PS/1AC/24DC/60W 2902992	24 DC / 100 W UNO-PS/1AC/24DC/100W 2902993	24 DC / 150 W UNO-PS/1AC/24DC/150W 2904376	24 DC / 240 W UNO-PS/1AC/24DC/240W 2904372
24 DC / 90 W * UNO-PS/1AC/24DC/90W/C2LPS 2902994				
48 DC / 60 W UNO-PS/1AC/48DC/60W 2902995	48 DC / 100 W UNO-PS/1AC/48DC/100W 2902996			
15 DC / 30 W UNO-PS/1AC/15DC/30W 2903000	15 DC / 55 W UNO-PS/1AC/15DC/55W 2903001	15 DC / 100 W UNO-PS/1AC/15DC/100W 2903002		
12 DC / 30 W UNO-PS/1AC/12DC/30W 2902998	12 DC / 55 W UNO-PS/1AC/12DC/55W 2902999	12 DC / 100 W UNO-PS/1AC/12DC/100W 2902997		
5 DC / 25 W UNO-PS/1AC/5DC/25W 2904374	5 DC / 40 W UNO-PS/1AC/5DC/40W 2904375			

UNO POWER 2~

Input: 2-phase, 264 ... 575 V AC

24 DC / 90 W * UNO-PS/2AC/24DC/90W/C2LPS 2904371

* Certified according to UL 1310/508 Listed Class 2

MINI POWER power supplies for measurement and control technology

Modular electronics housing is used as standard in measurement and control technology. MINI POWER is the ideal power supply for this type of application.



Your advantages

Easy-maintenance connection technology

- Coded COMBICON connectors

Flexible

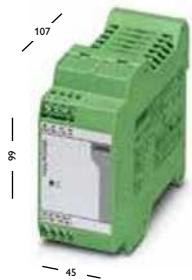
- Numerous output voltages and versions available

Function monitoring

- Active function monitoring via the switching output for remote monitoring of the output voltage

MINI POWER 1~

Input: 1-phase, 85 ... 264 V AC, 90 ... 350 V DC



24 V / 1.3 A

MINI-PS-100-240AC/24DC/1.3
2866446

24 V / 2 A

MINI-PS-100-240AC/24DC/2
2938730

±15 V / 1 A

MINI-PS-100-240AC/2x15DC/1
2938743

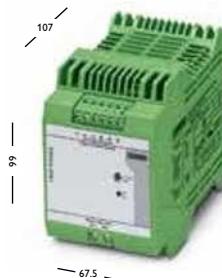
5 V / 3 A

MINI-PS-100-240AC/5DC/3
2938714

10 ... 15 V / 2 A

MINI-PS-100-240AC/10-15DC/2
2938756

Input: 1-phase, 85 ... 264 V AC, 90 ... 350 V DC



24 V / 4 A

MINI-PS-100-240AC/24DC/4
2938837

24 V / 100 W

MINI-PS-100-240AC/24DC/C2LPS
2866336

24 V / 1.5 A

MINI-SYS-PS-100-240AC/24DC/1.5
2866983

10 ... 15 V / 8 A

MINI-PS-100-240AC/10-15DC/8
2866297

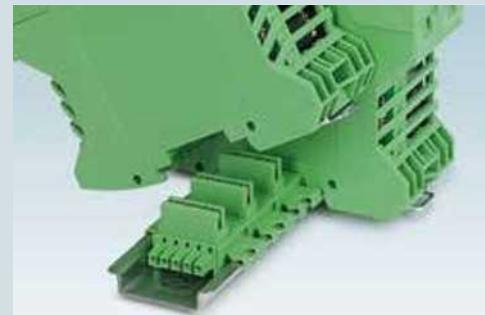
Certified according to UL 1310/508 Listed Class 2

24 V / 1.5 A

MINI-PS-100-240AC/24DC/1.5/EX
2866653



Accessories for 24 V / 1.5 A



DIN rail connector

ME 17,5 TBUS 1.5/5-ST-3,82 GN
2709561

Optional, 2 required per power supply
(24 V/1.5 A)

STEP POWER power supplies for installation distributors

STEP POWER power supplies are ideal for installation distributors and flat control panels. The low idling losses and the high degree of efficiency ensure maximum energy efficiency in its class.



When mounting on level surfaces: lugs integrated in the housing eliminate the need for additional mounting material

Your advantages

Flexible mounting

- Snap onto the DIN rail or screw on a level surface

Reliable supply

- High MTBF > 500,000 h
- U/I characteristic curve for supplying capacitive loads

Outdoor installation

- Wide temperature range from -25°C to +70°C

Use in domestic installation

- All 18 W devices meet standard EN 60335-1 for household appliances and are suitable for installation in ventilation systems, for example

Save energy

- Maximum energy efficiency and incredibly low idling losses

SAVE ENERGY



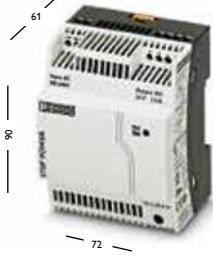
STEP POWER 1~

Input: 1-phase, 85 ... 264 V AC, 95 ... 250 V DC

			
24 V / 0.5 A STEP-PS/1AC/24DC/0.5 2868596	24 V / 0.75 A FL STEP-PS/1AC/24DC/0.75/FL 2868622	24 V / 0.75 A STEP-PS/1AC/24DC/0.75 2868635	24 V / 1.75 A STEP-PS/1AC/24DC/1.75 2868648
12 V / 1 A STEP-PS/1AC/12DC/1 2868538	12 V / 1.5 A FL STEP-PS/1AC/12DC/1.5/FL 2868554	12 V / 1.5 A STEP-PS/1AC/12DC/1.5 2868567	12 V / 3 A STEP-PS/1AC/12DC/3 2868570

5 V / 2 A

STEP-PS/1AC/5DC/2
[2320513](#)

			
24 V / 2.5 A STEP-PS/1AC/24DC/2.5 2868651	5 V / 6.5 A STEP-PS/1AC/5DC/6.5 2868541	24 V / 4.2 A STEP-PS/1AC/24DC/4.2 2868664	24 V / 100 W STEP-PS/1AC/24DC/3.8/C2LPS 2868677
12 V / 5 A STEP-PS/1AC/12DC/5 2868583	15 V / 4 A STEP-PS/1AC/15DC/4 2868619	48 V / 2 A STEP-PS/1AC/48DC/2 2868680	Certified according to UL 1310/508 Listed Class 2

STEP for 48 V AC

Input: 1-phase,
43 ... 52 V AC, 60 ... 80 V DC

	
48 V AC / 24 DC / 0.5 A STEP-PS/48AC/24DC/0.5 2868716	277 V AC / 24 DC / 3.5 A STEP-PS/277AC/24DC/3.5 2904945

STEP for 277 V AC

Input: 1-phase,
85 ... 305 V AC, 95 ... 250 V DC

DC/DC converters adapt voltages

QUINT and MINI DC/DC converters alter the voltage level, regenerate the voltage at the end of long cables or enable the creation of independent supply systems by means of electrical isolation.

Your advantages

Regeneration of the output voltage

- Constant voltage, even at the end of long cables
- Wide input voltage range
 - **24 V:** 18 ... 32 V DC, from 14 ... 32 V DC during operation
 - **12 V:** 9 ... 18 V DC
 - **48 V:** 30 ... 60 V DC
 - 42 ... 96 V DC and 67 ... 154 V DC wide range inputs

Fast tripping of standard circuit breakers

- Dynamic power reserve with SFB technology with up to six times the nominal current for 12 ms (for details on SFB technology, see pages 6/7)

Preventive function monitoring

- Indicates critical operating states before errors occur, thanks to permanent monitoring of the input voltage, output voltage, and output current
- Remote monitoring using active switching output and floating relay contact

Reliable starting of difficult loads and easy system extension

- POWER BOOST static power reserve with up to 1.25 times the nominal current permanently





QUINT DC/DC converters

High degree of flexibility thanks to wide input voltage ranges, e.g., for railway applications or power generation.

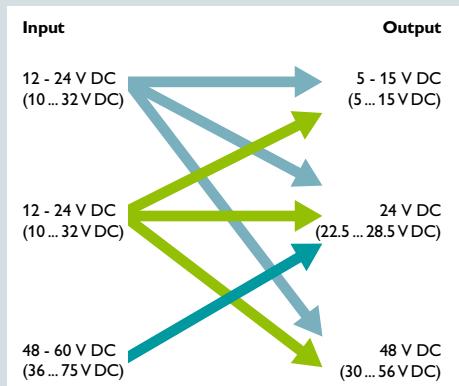
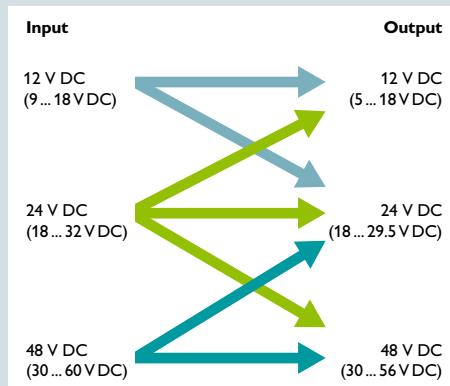
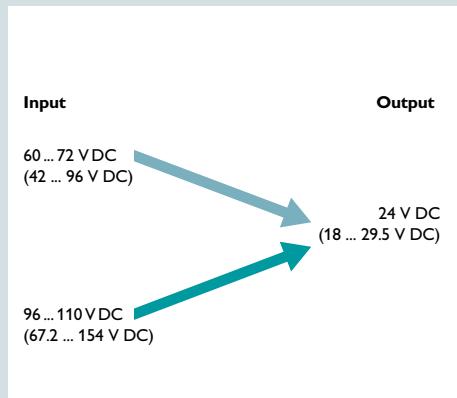
QUINT DC/DC converters

All common input and output voltages in performance classes up to 480 W for all industries as well as devices with approvals for the process industry.

MINI DC/DC converters

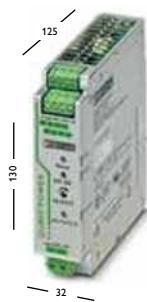
All common input and output voltages in performance classes up to 24 W for measurement and control technology.

Voltage levels



QUINT DC/DC converters

Input: 1-phase, 18 ... 32 V DC



24 DC / 24 DC / 5 A

QUINT-PS/24DC/24DC/5
2320034

24 DC / 24 DC / 10 A

QUINT-PS/24DC/24DC/10
2320092

24 DC / 24 DC / 20 A

QUINT-PS/24DC/24DC/20
2320102

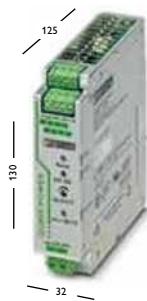
24 DC / 12 DC / 8 A

QUINT-PS/24DC/12DC/8
2320115

24 DC / 48 DC / 5 A

QUINT-PS/24DC/48DC/5
2320128

Input: 1-phase, 9 ... 18 V DC



Input: 1-phase, 30 ... 60 V DC



Input: 1-phase, 30 ... 60 V DC



12 DC / 24 DC / 5 A

QUINT-PS/12DC/24DC/5
2320131

48 DC / 24 DC / 5 A

QUINT-PS/48DC/24DC/5
2320144

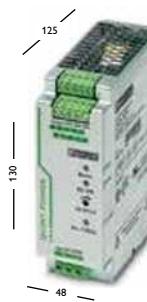
48 DC / 48 DC / 5 A

QUINT-PS/48DC/48DC/5
2905008

12 DC / 12 DC / 8 A

QUINT-PS/12DC/12DC/8
2905007

Input: 1-phase, 42 ... 96 V DC



Input: 1-phase, 67.2 ... 154 V DC



60 ... 72 DC / 24 DC / 10 A

QUINT-PS/60-72DC/24DC/10
2905009

96 ... 110 DC / 24 DC / 10 A

QUINT-PS/96-110DC/24DC/10
2905010

QUINT DC/DC converters, coated



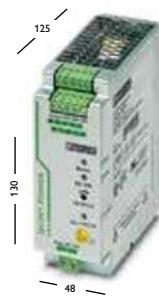
SFB
TECHNOLOGY

Input: 1-phase, 18 ... 32 V DC



24 V / 24 V / 5 A

**QUINT-PS/24DC/24DC/5/CO
2320542**



24 V / 24 V / 10 A

**QUINT-PS/24DC/24DC/10/CO
2320555**

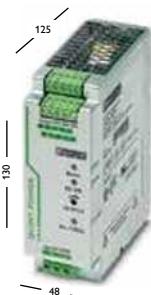


24 V / 24 V / 20 A

**QUINT-PS/24DC/24DC/20/CO
2320568**

For details on protective coating, see page 11.

Input: 1-phase, 42 ... 96 V DC



Input: 1-phase, 67.2 ... 154 V DC



60 ... 72 DC / 24 DC / 10 A

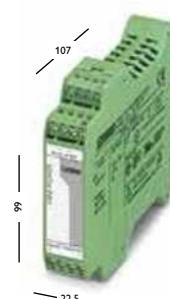
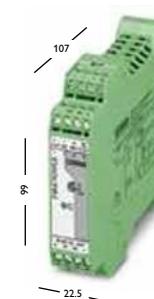
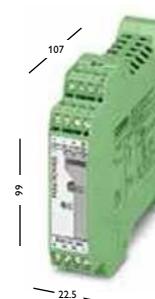
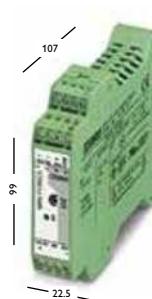
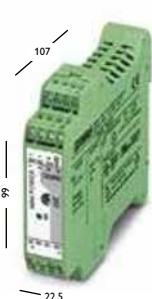
**QUINT-PS/60-72DC/24DC/10/CO
2905011**

96 ... 110 DC / 24 DC / 10 A

**QUINT-PS/96-110DC/24DC/10/CO
2905012**

MINI DC/DC converters

Input: 1-phase, 10 ... 32 V DC, 36 ... 75 V DC



12 ... 24 DC / 24 DC / 1 A

48 ... 60 DC / 24 DC / 1 A

12 ... 24 DC / 5 ... 15 DC / 2 A

12 ... 24 DC / 48 DC / 0.7 A

10 ... 42 V AC / 15 ... 60 V DC / 3 A

**MINI-PS-12-24DC/24DC/1
2866284**

**MINI-PS-48-60DC/24DC/1
2866271**

**MINI-PS-12-24DC/5-15DC/2
2320018**

**MINI-PS-12-24DC/48DC/0.7
2320021**

**MINI-PS-10-42AC/15-60DC/3
2320199**

- AC power terminal
- AC voltage of a transformer is rectified and filtered

Power supplies for frequency inverters

These power supplies are specifically designed for connection to frequency inverters. In the event of mains failure, the DC intermediate circuit voltage of the inverter continues to supply all connected 24 V loads without interruption.



Your advantages

Compact buffer solution

- Maintenance-free buffer solution: controlled machine stop in the event of mains failure by using the existing capacity in the frequency inverter
- Compact solution in one housing: parallel operation on two-phase AC mains and a DC intermediate circuit

Fast tripping of standard circuit breakers

- Dynamic power reserve with SFB technology with 120 A for 20 ms (for details on SFB technology, see pages 6/7)

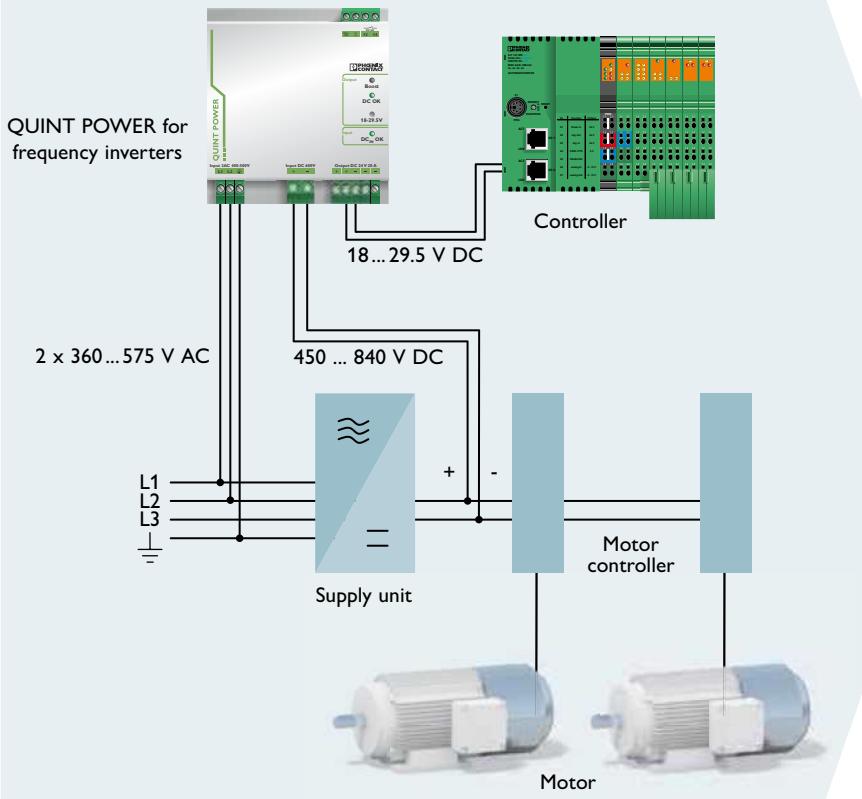
Preventive function monitoring

- Indicates critical operating states before errors occur, thanks to permanent monitoring of the output voltage and output current
- Remote monitoring using active switching output and floating relay contact

Reliable starting of difficult loads and easy system extension

- POWER BOOST static power reserve supplies 26 A permanently





QUINT POWER is connected to two outer conductors of the three-phase system and to a DC voltage. This can be the DC intermediate circuit voltage of a frequency inverter or, as in this example, a supply unit. In the event of mains failure, the controller continues to be supplied by using the kinetic energy of the motors. This enables a controlled machine stop. Quick and error-free restart of the machine is therefore ensured when the supply voltage is restored.

TRIO POWER, 1 DC

Input: 450 V DC ... 840 V DC



24 V / 20 A

TRIO-PS/600DC/24DC/20
2866530

QUINT POWER, 2 AC / 1 DC

Input: 2 x 360 ... 575 V AC, 450 ... 840 V DC



24 V / 20 A

QUINT-PS/2AC/1DC/24DC/20
2320830

SFB
TECHNOLOGY

Active redundancy module for superior system availability thanks to ACB technology

The ACB (auto current balancing) technology of the QUINT ORING modules doubles the service life of redundantly operated power supplies by utilizing both power supply units to an equal degree. The load current is automatically distributed symmetrically.

Two QUINT POWER power supplies combined with QUINT ORING limit the voltage to a maximum of 32 V DC even in the event of two faults. In this way, loads are reliably protected against permanent surge voltages and dangerous states.

50%
power



ACB technology doubles the service life

In applications with the highest demands regarding operational reliability, redundant power supply solutions are implemented to ensure that the failure of a power supply unit does not result in system downtime.

As a result of asymmetries, the load is often supplied by one power supply unit, while the other runs in no-load operation. This results in a thermal load on the working power supply unit and therefore rapid aging. If the power supply unit is operated at half the nominal current, it remains significantly cooler.

The ACB technology of the QUINT ORING modules ensures symmetrical loading of the power supplies and thereby up to double the service life of the redundant system.



50%
power

Your advantages

Preventive function monitoring

- Permanent monitoring of the input voltage, output current, and decoupling section

Consistent redundancy

- Redundant wiring up to the load with two positive output terminal blocks

Double the service life

- Thanks to even load distribution

70% energy saving

- Decoupling is implemented with MOSFETs instead of diodes

OVP (Over Voltage Protection)

- Surge voltages are limited to 32 V
- Doubly failsafe with:
2 x QUINT POWER and 1 x QUINT ORING

Robust design

- Protective coating for extreme requirements
- Approvals for use in potentially explosive areas

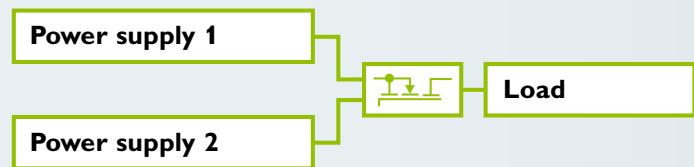
Decoupling, monitoring, and controlling redundancy modules

A redundant power supply system is the result of the parallel connection of two power supply units. In order to increase system availability, the power supplies must be decoupled and the redundancy must be monitored. The following are ideal solutions:

- Decoupling, monitoring, and control
- Decoupling and monitoring
- Decoupling

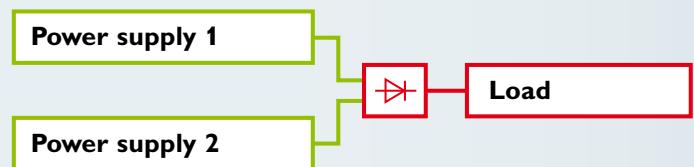
Decoupling, monitoring, and control

Decoupling with active redundancy module + monitoring of the power supply unit voltages, the wiring, decoupling, and the load current.



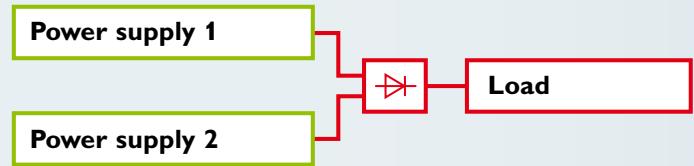
Decoupling and monitoring

Decoupling with redundancy module + monitoring of the power supply unit voltages and the wiring.



Decoupling

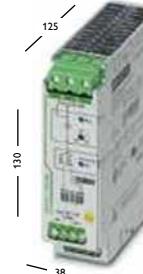
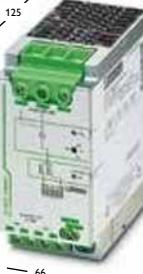
Decoupling with diode.



— Monitored
— Not monitored

QUINT ORING

Input: 18 ... 28 V DC

		
24 V / 2 x 10 A / 1 x 20 A QUINT-ORING/24DC/2x10/1x20 2320173	24 V / 2 x 20 A / 1 x 40 A QUINT-ORING/24DC/2x20/1x40 2320186	24 V / 2 x 40 A / 1 x 80 A QUINT-ORING/24DC/2x40/1x80 2902879

TRIO DIODE

Input: 10 ... 30 V DC, 30 ... 56 V DC

	
12...24 V / 2 x 10 A / 1 x 20 A TRIO-DIODE/12-24DC/2x10/1x20 2866514	48 V / 2 x 10 A / 1 x 20 A TRIO-DIODE/48DC/2x10/1x20 2866527

QUINT DIODE

Input: 10 ... 30 V DC, 30 ... 56 V DC

	
12...24 V / 2 x 20 A / 1 x 40 A QUINT-DIODE/12-24DC/2x20/1x40 2320157	48 V / 2 x 20 A / 1 x 40 A QUINT-DIODE/48DC/2x20/1x40 2320160

UNO DIODE

Input: 4.5 V ... 30 V DC


5 ... 24 V DC UNO-DIODE/5-24DC/2x10/1x20 2905489

STEP DIODE

Input: 4.5 V ... 30 V DC

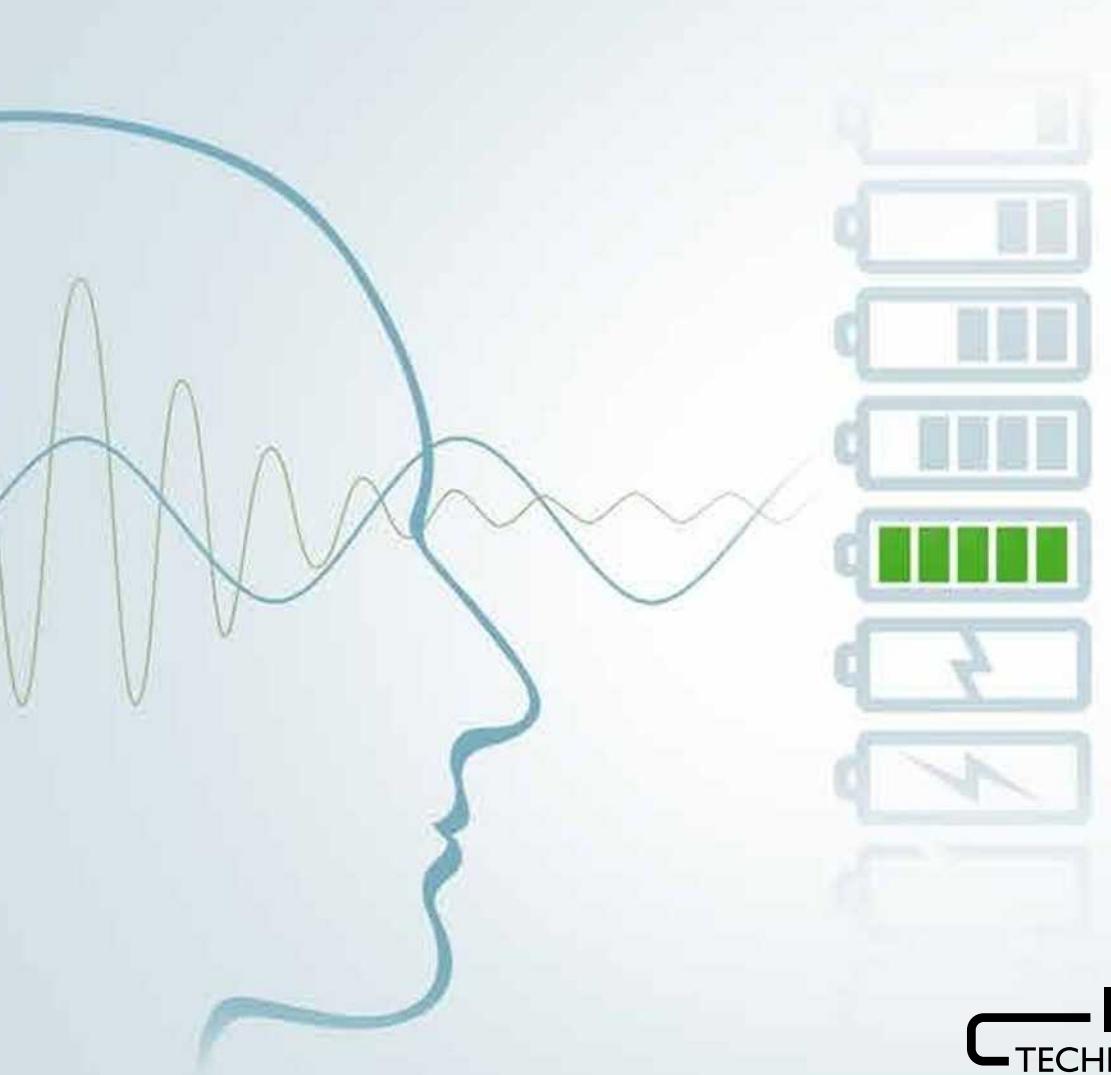

5 ... 24 V / 2 x 5 A / 1 x 10 A STEP-DIODE/5-24DC/2x5/1x10 2868606

Intelligent UPS system for superior system availability thanks to IQ technology

Uninterruptible power supplies (UPS) continue to deliver power even in the event of mains failure. With our IQ technology, you are one step ahead:

- You know the state of charge and remaining runtime of your power storage
- You are warned about failures at an early stage and have time to prevent them
- You can maximize the service life of the power storage
- You can transfer all relevant information to your computer and higher-level controllers





Intelligence for superior system availability

Task: an industrial PC must be continuously supplied with 24 V DC.

Previous solution: the UPS with 3.4 Ah buffers 24 V DC/5 A for 20 minutes under optimum conditions. Can the power storage actually bridge this time? State of charge, performance, and remaining runtime of the power storage are unknown.

Solution with QUINT UPS: the intelligent UPS determines all relevant power storage states. This ensures the transparency required to guarantee the stability of the supply and optimum use of the power storage at all times.

The intelligent battery management detects the current state of charge of the connected power storage and uses this to calculate the remaining runtime. The QUINT UPS also indicates whether the buffer time is actually 20 minutes. As soon as an adjustable threshold value is reached, a warning message is sent via the floating relay contact, the software or directly to higher-level controllers. The IPC continues working for as long as possible and is shut down before the battery voltage runs out.

Intelligence in any combination

Create your own individual solution –
tailored to your application.

1. Choose your power supply:

Compact QUINT POWER power supplies
ensure superior system availability.

2. Choose your UPS module:

The intelligent QUINT UPS actively informs
you when necessary.

3. Choose your power storage:

- UPS-CAP for maximum service life
- UPS-BAT/LI-ION for long service life with
long buffer times
- UPS-BAT/VRLA and VRLA-WTR
for maximum buffer times

STEP UPS	MINI UPS	UNO UPS	TRIO UPS	QUINT BUFFER	QUINT UPS

					<ul style="list-style-type: none">• IQ technology
					<ul style="list-style-type: none">• Flexible thanks to various power storage technologies
					<ul style="list-style-type: none">• Communication-capable
					<ul style="list-style-type: none">• Configurable
•	•	•	•	•	<ul style="list-style-type: none">• UPS modules with integrated power storage
	•	•			<ul style="list-style-type: none">• UPS modules with integrated power supply



Power supply



UPS module



Power storage

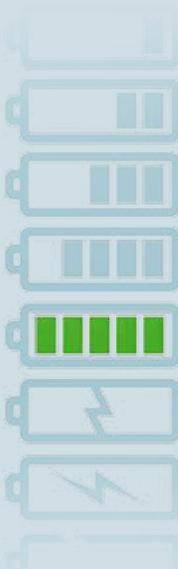


The IQ technology is intuitive and provides you with information as soon as it is required.

Intelligent battery management

SOC (state of charge) – current state of charge and remaining runtime of the power storage.

SOH (state of health) – remaining life expectancy of the power storage, warns of failure at an early stage.



Intelligent battery control

Detects the connected battery type automatically and maximizes the remaining service life of the power storage by means of an optimally adapted charging characteristic.

Intelligent charging

Adapts the charging current, thereby ensuring the fastest possible recharging and availability.

Data port

Used for communication between the UPS module and PC/higher-level controller.

UPS modules for DC applications

The UPS module for 24 V DC with output currents ranging from 5 to 40 A allows you to create a custom solution combining a power supply, UPS module, and power storage.

Your advantages

Optimum use of the buffer time and preventive monitoring of the power storage

- Detects the current state of charge of the power storage and calculates the remaining runtime
- Calculates the current life expectancy of the power storage

Rapid battery charging

- Adaptive current management charges the battery twice as fast as before, while simultaneously providing sufficient energy for the loads

Comprehensive signaling and parameterization

- Floating relay contacts
- Data port
- Parameterization with memory module

Substantial power reserve

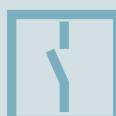
- For mains and battery operation
- POWER BOOST static power reserve
- Dynamic power reserve with SFB (selective fuse breaking) technology

IQ
TECHNOLOGY

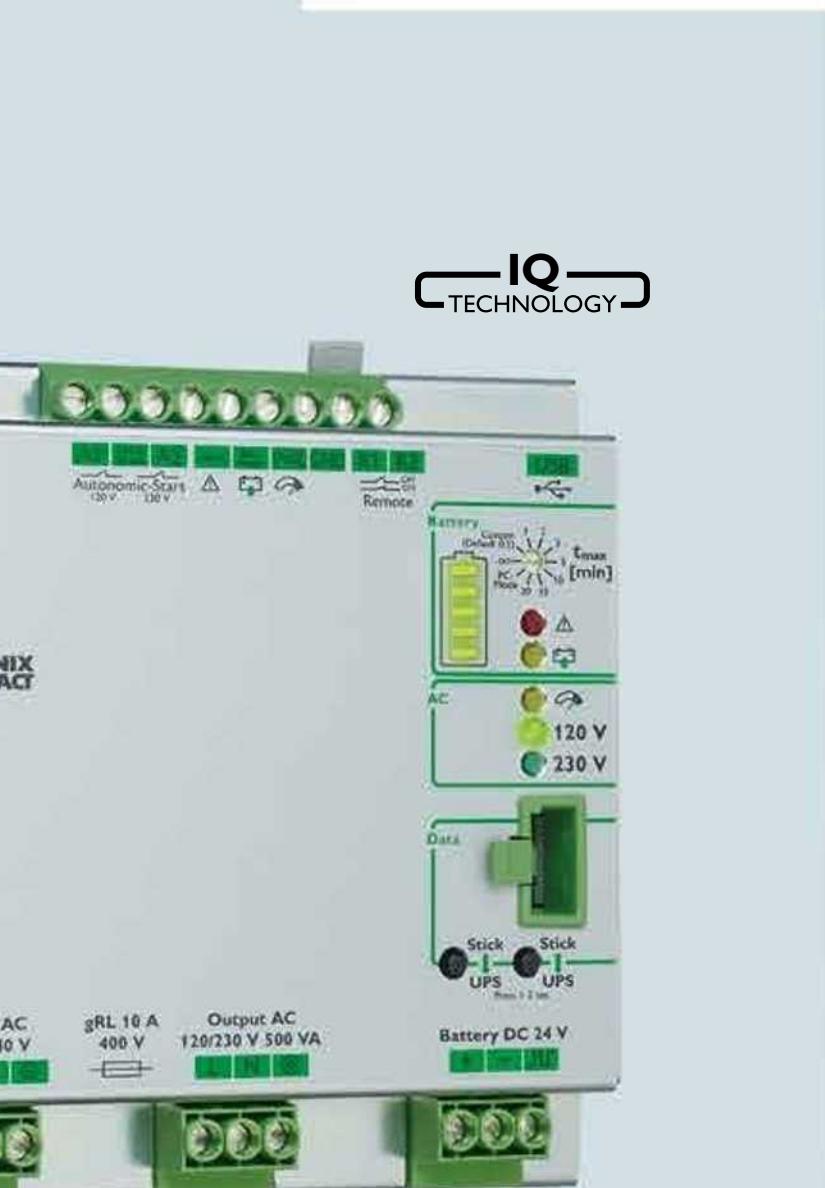
SFB
TECHNOLOGY



Power supply **UPS module** Power storage



UPS module for AC applications



Power supply UPS module Power storage

The UPS module for 120 V AC/230 V AC delivers a pure sine curve at the output. For 400 W/500 VA of power, only one power storage is required, the power supply is already integrated.

Your advantages

Optimum use of the buffer time and preventive monitoring of the power storage

- Detects the current state of charge of the power storage and calculates the remaining runtime
- Calculates the current life expectancy of the power storage

Worldwide use

- Input voltages from 102 ... 264 V AC
- Pure sine curve: the sine generated in battery operation is synchronous with the mains previously used for supply
- In the event of mains failure, the output is automatically supplied with 120 V AC/60 Hz or 230 V AC/50 Hz
- Manual voltage pre-selection possible

Maximum efficiency

- Offline operation: 98% efficiency with charged power storage

Comprehensive signaling and parameterization

- Switching outputs
- USB interface
- Data port
- Parameterization with memory module

Simplified startup

- The UPS can be switched on without a power supply network (isolated operation)

QUINT UPS

power storage

You can always find the ideal solution for superior system availability with the modular system for uninterruptible power supplies.

The various storage media feature a wide range of different properties: long service life or very long buffer time, no maintenance or use at extreme ambient temperatures.

Whatever your requirements, we offer the ideal power storage.

Type	Buffer time (typical)	Temperature
UPS-CAP...	< 5 min.	-40 ... +60°C
UPS-BAT/LI-ION...	> 40 min.	-20 ... +58°C
UPS-BAT/VRLA-WTR...	> 5 h	-25 ... +60°C
UPS-BAT/VRLA...	> 8 h	0 ... +40°C



UPS-BAT/VRLA...
(Valve Regulated Lead Acid)

- Maximum buffer times
- Lead AGM (Absorbed Glass Mat) technology



UPS-BAT/VRLA-WTR...
**(Valve Regulated Lead Acid/
Wide Temperature Range)**

- Maximum buffer times at extreme temperatures
- Pure lead AGM (Absorbed Glass Mat) technology

Your advantages

Fast installation

- Automatic detection of the power storage by QUINT UPS
- Tool-free replacement during operation

Maximum availability

- Constant communication with QUINT UPS for continuous monitoring and intelligent management

Extremely long service life

- Optimum charging characteristic according to the technology and ambient conditions

Immediate availability

- All power storage devices leave our warehouse fully charged

Service life at 20°C	Service life at 50°C	Charging cycles at 20°C	Weight (standardized)
> 20 years	8 years	> 500,000	0.4 kg
15 years	2 years	7000	0.45 kg
12 years	1.5 years	300	1.3 kg
6 ... 9 years	1 year	250	1 kg



UPS-BAT/LI-ION...

- Long service life with long buffer times
- Lithium-ion technology

UPS-CAP (Capacitor)

- Maximum service life
- Maintenance-free double-layer capacitors



Power supply



UPS module



Power storage

Selection guide for QUINT UPS and CAP, LI-ION, VRLA-WTR

Buffer times for DC UPS modules



Select your **UPS-BAT** and **UPS-CAP** for 24 V DC applications here.

Example: 20 A needs to be buffered for 6 minutes



→ QUINT-DC-UPS/24DC/20A and UPS-BAT/LI-ION/24DC/120WH

Buffer time



Load current	Seconds							Minutes												Hours											
	0.2	0.4	1	2	8	16	30	1	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8	10	15	20	40	
1 A																															1+1
2 A																															1+1 1+1
3 A																															1+1 1+1
5 A																															1+1 1+1
7 A																															1+1
10 A																															1+1
15 A																															1+1
20 A																															1+1
25 A																															1+1
30 A																															1+1 1+1
35 A																															1+1 1+1 1+1 1+1
40 A																															1+1 1+1 1+1

Buffer times for AC UPS module



Select your **UPS-BAT** and **UPS-CAP** for 120 V AC/230 V AC applications here.

Example: 125 W needs to be buffered for one hour



→ QUINT-UPS/1AC/1AC/500VA and UPS-BAT/VRLA-WTR/24DC/13AH

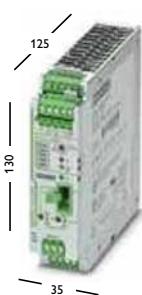
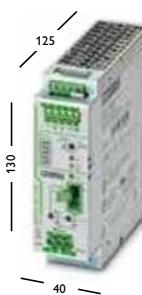
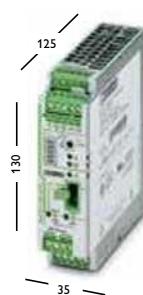
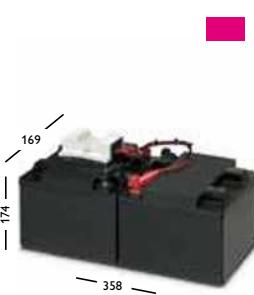
Buffer time



Power	Seconds							Minutes												Hours											
	0.2	0.4	2	8	15	20	40	1	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8	10	15	20		
15 W																															1+1
35 W																															1+1 1+1
55 W																															1+1 1+1
90 W																															1+1
125 W																															1+1
180 W																															1+1
275 W																															1+1
400 W																															1+1

1+1 ... Two power storage devices of the same capacity are required in this case.

The data is based on an ambient temperature of 20°C.

DC UPS modules				Dual output
				
24 V / 5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A	12 V / 5 A, 24 V / 10 A
QUINT-UPS/ 24DC/24DC/5 2320212 Recommended: UPS-CAP UPS-BAT/VRLA-WTR UPS-BAT/LI-ION	QUINT-UPS/ 24DC/24DC/10 2320225 Recommended: UPS-CAP UPS-BAT/VRLA-WTR UPS-BAT/LI-ION	QUINT-UPS/ 24DC/24DC/20 2320238 Recommended: UPS-CAP 20 A UPS-BAT/VRLA-WTR UPS-BAT/LI-ION	QUINT-UPS/ 24DC/24DC/40 2320241 Recommended: UPS-BAT/VRLA-WTR	QUINT-UPS/ 24DC/12DC/5/24DC/10 2320461 Recommended: UPS-CAP UPS-BAT/VRLA-WTR UPS-BAT/LI-ION
AC UPS module				
				
400 W / 500 VA				
QUINT-UPS/ 1AC/1AC/500VA 2320270 Recommended: UPS-CAP 20 A UPS-BAT/VRLA-WTR UPS-BAT/LI-ION				
UPS-CAP		UPS-BAT/LI-ION	UPS-BAT/VRLA-WTR	
				
10 A / 10 kJ	20 A / 20 kJ	120 WH	13 Ah	26 Ah
UPS-CAP/ 24DC/10A/10kJ 2320377	UPS-CAP/ 24DC/20A/20kJ 2320380	UPS-BAT/LI-ION/ 24DC/120WH 2320351	UPS-BAT/VRLA-WTR/ 24DC/13AH 2320416	UPS-BAT/VRLA-WTR/ 24DC/26AH 2320429

Selection guide for QUINT UPS and VRLA

Buffer times for DC UPS modules



Select your **UPS-BAT** for 24 V DC applications here.

Example: 20 A needs to be buffered for 10 minutes



→ QUINT-DC-UPS/24DC/20A and UPS-BAT/VRLA/24DC/7.2AH

Buffer time



Load current	Buffer time												Hours									
	Seconds				Minutes								1				2		3		5	
	0.2	0.4	2	8	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8
1 A																						
2 A																						
3 A																						
5 A																						
7 A																						1+1
10 A																					1+1	1+1
15 A																			1+1	1+1		
20 A																			1+1			
25 A																			1+1	1+1		
30 A																			1+1	1+1	1+1	
35 A																			1+1	1+1	1+1	1+1
40 A																			1+1	1+1	1+1	1+1

Buffer times for AC UPS module



Select your **UPS-BAT** for 120 V AC/230 V AC applications here.

Example: 125 W needs to be buffered for one hour



→ QUINT-UPS/1AC/1AC/500VA and UPS-BAT/VRLA/24DC/12AH

Buffer time



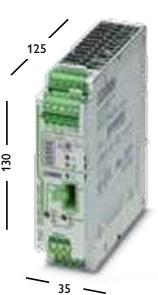
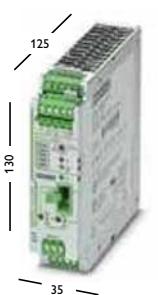
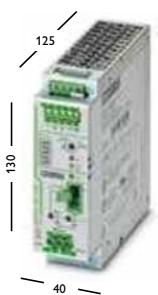
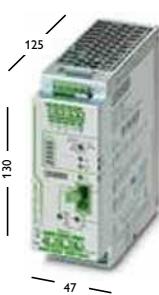
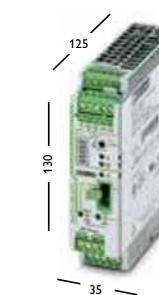
Power	Buffer time												Hours									
	Seconds				Minutes								1				2		3		5	
	0.2	0.4	2	8	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8
15 W																						
35 W																						
55 W																						
90 W																						1+1
125 W																			1+1			
180 W																			1+1			
275 W																			1+1	1+1		
400 W																			1+1			

1+1 ... Two power storage devices of the same capacity are required in this case.

The data is based on an ambient temperature of 20°C.

DC UPS modules

Dual output

				
24 V / 5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A	12 V / 5 A, 24 V / 10 A
QUINT-UPS/ 24DC/24DC/5 2320212 Recommended: UPS-CAP UPS-BAT/VRLA-WTR UPS-BAT/LI-ION	QUINT-UPS/ 24DC/24DC/10 2320225 Recommended: UPS-CAP UPS-BAT/VRLA-WTR UPS-BAT/LI-ION	QUINT-UPS/ 24DC/24DC/20 2320238 Recommended: UPS-CAP 20 A UPS-BAT/VRLA-WTR UPS-BAT/LI-ION	QUINT-UPS/ 24DC/24DC/40 2320241 Recommended: UPS-BAT/VRLA-WTR	QUINT-UPS/ 24DC/12DC/5/24DC/10 2320461 Recommended: UPS-CAP UPS-BAT/VRLA-WTR UPS-BAT/LI-ION

AC UPS module



400 W / 500 VA

**QUINT-UPS/
1AC/1AC/500VA
2320270**

Recommended:
UPS-CAP 20 A
UPS-BAT/VRLA-WTR
UPS-BAT/LI-ION

UPS-BAT/VRLA power storage devices

				
1.3 Ah	3.4 Ah	7.2 Ah	12 Ah	38 Ah
UPS-BAT/ VRLA/24DC/1.3AH 2320296	UPS-BAT/ VRLA/24DC/3.4AH 2320306	UPS-BAT/ VRLA/24DC/7.2AH 2320319	UPS-BAT/ VRLA/24DC/12AH 2320322	UPS-BAT/ VRLA/24DC/38AH 2320335

QUINT UPS

Signaling and configuration

Monitor and configure your UPS system using the UPS-CONF configuration and management software.

For quick startup, important information is provided in the poster-sized brief instructions. Pictures and screenshots aid hardware and software installation and help explain the method of operation of UPS-CONF.

The quick start guide is available free of charge on the Phoenix Contact website under “Downloads” for the QUINT UPS products.



Signaling via contacts

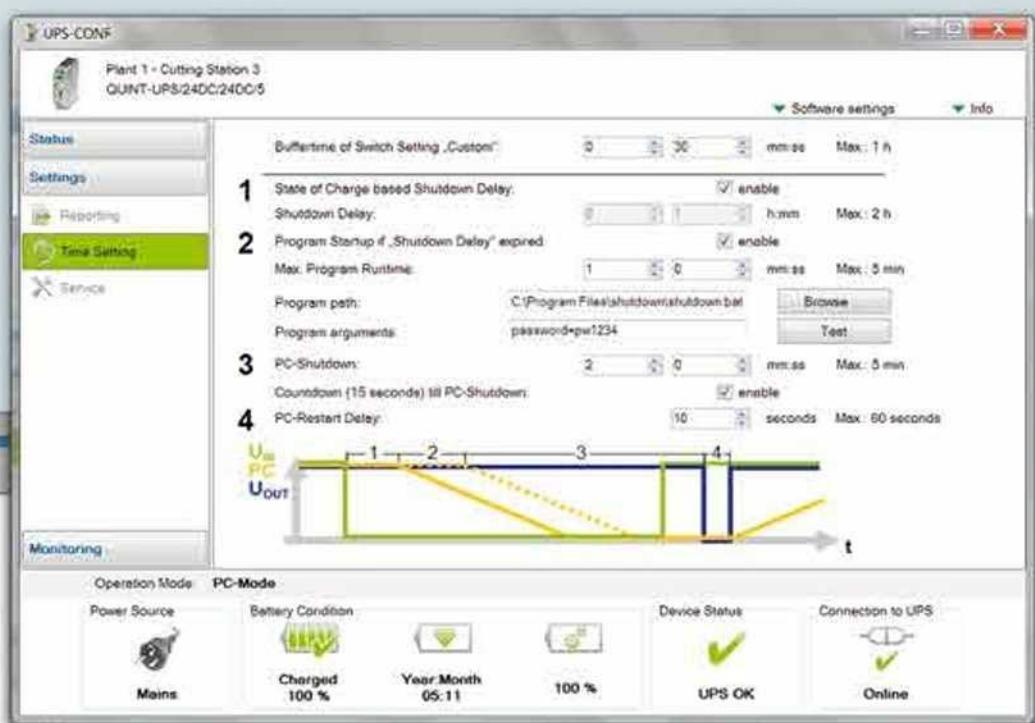
LEDs and floating relay contacts provide function monitoring. QUINT UPS-IQ supplies the following information via the wired contacts:

- The load is being supplied by the power storage
- The power storage is being charged
- An alarm is present



USB interface is ideal for:

- Monitoring and configuration with UPS-CONF
- Safe shutdown of industrial PCs with optimum utilization of the power storage



Configurable

- Flexible adaptation of QUINT UPS behavior to individual requirements

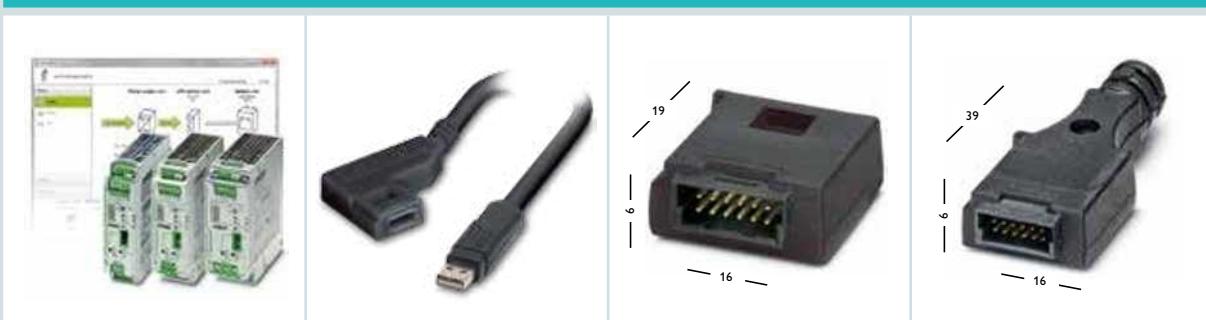
Preventative function monitoring

- All relevant operating parameters are displayed graphically
- Important messages appear in the foreground

Integrated data recorder

- Log file archives events, e.g., when and for how long QUINT UPS has bridged mains failures

Accessories



Software

UPS-CONF
2320403

- Available free of charge on the Phoenix Contact website under "Downloads" for the QUINT-UPS/... products

USB data cable

IFS-USB-DATACABLE
2320500

- For communication between UPS module and UPS-CONF
- Length: 3 m

Memory module

IFS-CONFSTICK
2986122

- For saving and transferring configured values to other QUINT UPS

Memory module

IFS-CONFSTICK-L
2901103

- For saving and transferring configured values to other QUINT UPS

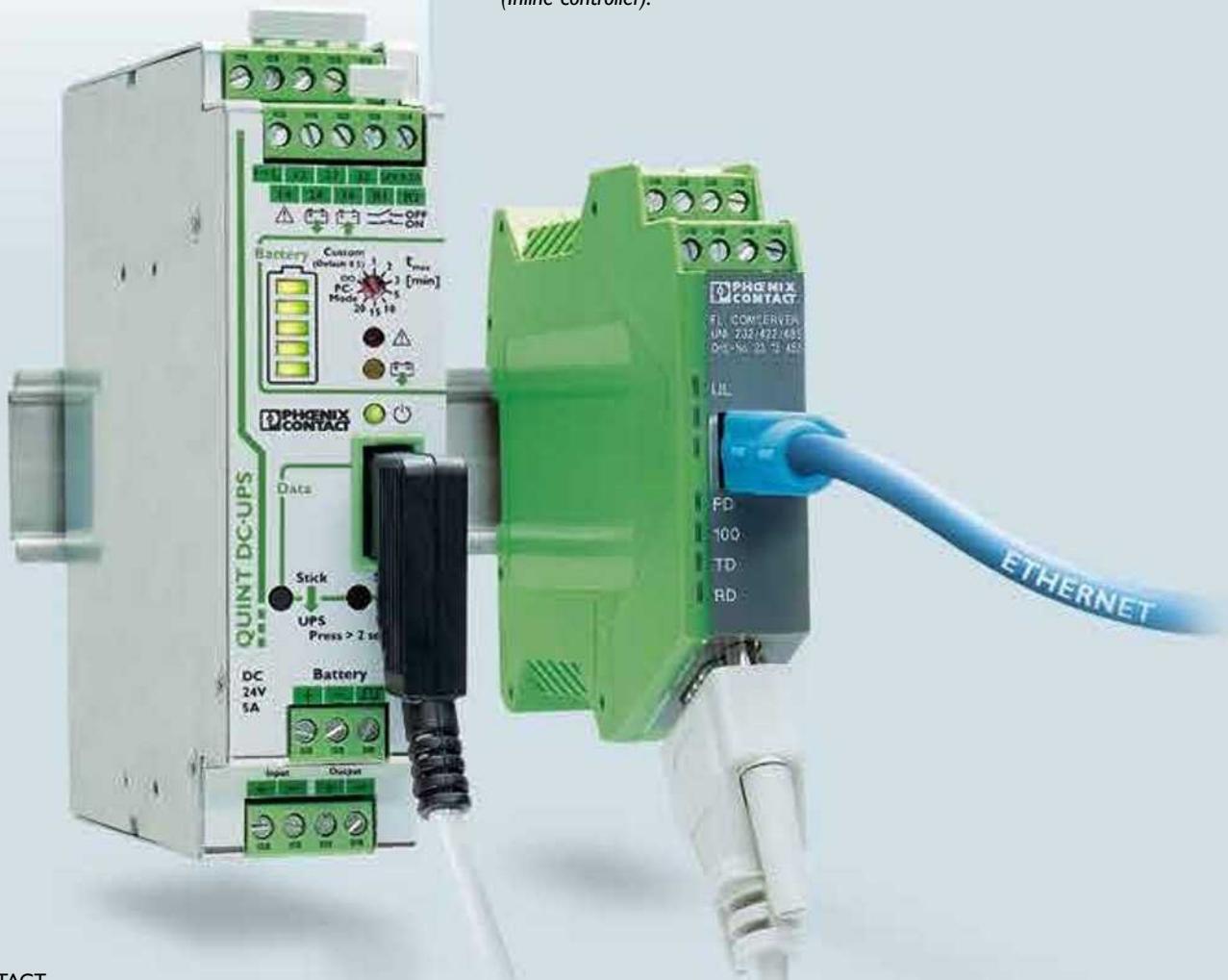
QUINT UPS Communication

Use the available data cables to integrate the UPS module into your application. You can therefore benefit from all the advantages of IQ technology and be kept informed of the state of your UPS solution.

The information provided by QUINT UPS can, for example, be forwarded to higher-level controllers via Ethernet or be implemented directly in control solutions from Phoenix Contact.



The IFS-MINI-DIN DATACABLE is suitable for direct communication with the 100 series higher-level ILC (Inline controller).





Accessories

		
RS-232 data cable IFS-RS232-DATACABLE 2320490	Open end data cable IFS-OPEN-END-DATACABLE 2320450	MINI DIN data cable IFS-MINI-DIN-DATACABLE 2320487
<ul style="list-style-type: none">Modbus communication with RS-232 interfaceCOM server from Phoenix Contact for Ethernet communicationAddress higher-level controllers such as Inline controllers (ILCs) or Remote Field Controllers (RFCs) directlyUse the Inline controller from Phoenix Contact as a gateway and access other communication protocolsLength: 2 m	<ul style="list-style-type: none">Open cable for flexible communicationLength: 2 m	<ul style="list-style-type: none">Direct communication with the Inline controller (ILC) from the Phoenix Contact Inline system (100 series)Length: 2 m

Do you use PC Worx software?

Then use the library with function blocks for the further processing of information communicated via data cables. It is available free of charge on the Phoenix Contact website under "Downloads" for the QUINT-UPS/... products.

UPS modules with integrated power storage

Particularly space saving and easy to retrofit, the UPS module and power storage are combined in the same housing. It's just a case of connecting a power supply upstream and the reliable UPS solution is complete.



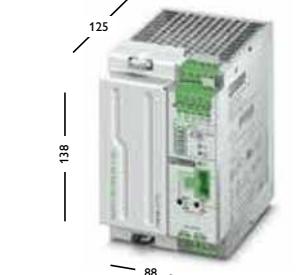
Power supply



UPS module



Power storage

UNO UPS	STEP UPS
Input: 1-phase, 23 ... 30 V DC	Input: 1-phase, 24 V: 22.5 ... 29.5 V DC, 12 V: 10 ... 16.5 V DC
 90 110	 61 90 108
24 V / 60 W  UNO-UPS/24DC/24DC/60 2905907	24 DC / 24 DC / 3 A  STEP-UPS/24DC/24DC/3 2868703
<ul style="list-style-type: none"> • Power storage with lead AGM technology 	<ul style="list-style-type: none"> • LiPo-based power storage
QUINT UPS	QUINT BUFFER
Input: 1-phase, 18 ... 30 V DC	Input: 1-phase, 18 ... 30 V DC
 125 138 88	 125 169 120
24 DC / 5 A / 1.3 Ah QUINT-UPS/24DC/24DC/5/1.3AH 2320254	24 DC / 10 A / 3.4 Ah QUINT-UPS/24DC/24DC/10/3.4AH 2320267
<ul style="list-style-type: none"> • Power storage with lead AGM technology • Integrated temperature sensor optimizes load currents and increases the service life • Function monitoring via LED and floating relay contact 	<ul style="list-style-type: none"> • Capacitor-based power storage • Maintenance-free



Buffer times for UNO UPS and STEP UPS

Select your UNO UPS here.

Load current	Buffer time																			
	Seconds				Minutes															
	0.2	0.4	1	2	8	16	30	1	2	3	5	6	7	8	9	10	20	30	40	45
0.5 A																				
1 A																				
1.5 A																				
2 A																				
2.5 A																				

Select your STEP UPS here.

With the 12 V version, buffer times are double those of the 24 V version.

Load current	Buffer time																										
	Seconds				Minutes														Hours								
	0.2	0.4	1	2	8	16	30	1	2	3	5	6	7	8	9	10	15	20	25	30	40	45	50	1	2	3	
0.5 A																											
1 A																											
2 A																											
3 A																											

Buffer times for QUINT UPS and QUINT BUFFER

Select your UPS solution here.
Example: 5 A needs to be buffered for 20 minutes

→ QUINT-UPS/24DC/24DC/10A/3.4AH
→ QUINT-BUFFER/24DC/24DC/10A/3.4AH

Load current	Buffer time																										
	Seconds				Minutes														Hours								
	0.2	0.4	1	2	8	16	30	1	2	3	5	6	7	8	9	10	15	20	25	30	40	45	50	1	2	3	
0.5 A																											
1 A																											
2 A																											
3 A																											
5 A																											
7 A																											
10 A																											
15 A																											
20 A																											
25 A																											
30 A																											
35 A																											
40 A																											

UPS modules with integrated power supply

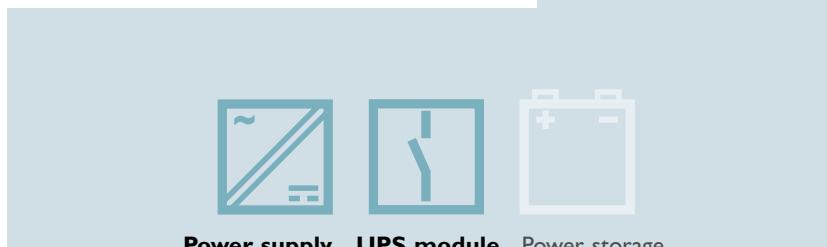
The UPS module and power supply are combined in the same housing in a particularly space-saving way. Only one power storage is required to complete the UPS system.

MINI UPS

Power storage devices with lead AGM technology enable buffer times of up to 40 minutes under nominal load for output voltages of 24 or 12 V DC.

TRIO UPS

Power storage devices with lead AGM technology buffer failures lasting up to 2 hours with 5 A load current.



MINI UPS + ...

Input: 1-phase,
85 ... 264 V AC, 100 ... 350 V DC

MINI-DC-UPS/24DC/2
2866640

Output: 24 V DC / 2 A

MINI-DC-UPS/12DC/4
2866598

Output: 12 V DC / 4 A



TRIO UPS + ...

Input: 1-phase,
85 ... 264 V AC, 100 ... 350 V DC

TRIO-UPS/1AC/24DC/5
2866611

Accessories

UPS-CONF
2320403

Configuration software available for free on the Phoenix Contact website under "Downloads" for the TRIO UPS product

IFS-USB-DATACABLE
2320500

Data cable for communication between UPS-CONF and TRIO UPS



Memory modules
2986122/2901103

Memory module for saving and transferring configured values to other TRIO UPS

Buffer times for MINI UPS and TRIO UPS

Select your **MINI-BAT** for MINI UPS and **QUINT-BAT** for TRIO UPS here.

Example: 2 A needs to be buffered for 20 minutes



→ **MINI-DC-UPS/24DC/2** and **MINI-BAT/24DC/1.3AH**

Load current	Minutes										Hours					
	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3
0.5 A																
1 A																
1.5 A																
2 A																
3 A																
4 A																
5 A																



... MINI-BAT for MINI UPS

24 V DC / 0.8 Ah MINI-BAT/24DC/0.8AH 2866666	24 V DC / 1.3 Ah MINI-BAT/24DC/1.3AH 2866417	12 V DC / 1.6 Ah MINI-BAT/12DC/1.6AH 2866572	12 V DC / 2.6 Ah MINI-BAT/12DC/2.6AH 2866569
--	--	--	--

... QUINT-BAT for TRIO UPS

24 V / 1.3 Ah MINI-BAT/24DC/1.3AH 2866417	24 V / 3.4 Ah QUINT-BAT/24DC/3.4AH 2866349	24 V / 7.2 Ah QUINT-BAT/24DC/7.2AH 2866352	12 Ah QUINT-BAT/24DC/12AH 2866365
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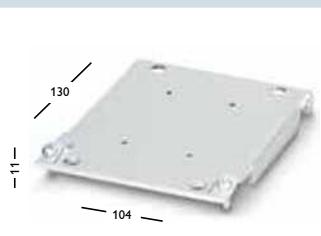
Accessories for power supplies

Mounting on S7-300 rail



QUINT-PS adapter S7/1
2938196

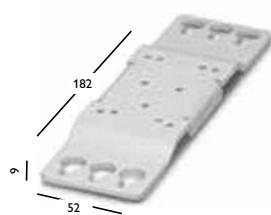
For: QUINT-PS/1AC/24DC/3.5,
QUINT-PS/1AC/24DC/5,
QUINT-PS/3AC/24DC/5



QUINT-PS adapter S7/2
2938206

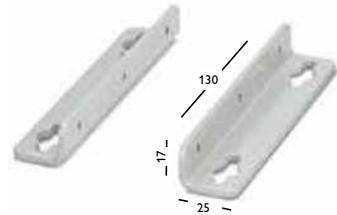
For: QUINT-PS/1AC/24DC/10,
QUINT-PS/3AC/24DC/10,
QUINT-PS/3AC/24DC/20

Mounting on level surfaces



Adapter UWA 182/52
2938235

For TRIO-PS from 10 A, QUINT-PS,
QUINT-DC-UPS,
QUINT-BUFFER



Adapter UWA 130
2901664

Accessories for uninterruptible power supplies

Power storage mounting



BATTERY MOUNTING KIT
2320788

For: UPS-BAT/VRLA/24DC/38AH,
UPS-BAT/VRLA-WTR/24DC/13AH,
UPS-BAT/VRLA-WTR/24DC/26AH



BATTERY MOUNTING CASE
2320458

For: UPS-BAT/VRLA/24DC/38AH,
UPS-BAT/VRLA-WTR/24DC/13AH,
UPS-BAT/VRLA-WTR/24DC/26AH

Fuses for power storage



SI FORM C 15 A DIN 72581
0913676

SI FORM C 25 A DIN 72581
0913757

- Flat-type plug-in fuse
- 15 A and 25 A nominal current

Ethernet communication



FL COMSERVER UNI 232/422/485
2313452

- Integration of serial RS-232, RS-422, and RS-485 interfaces
- For machine and system access via Ethernet network



ILC 130 ETH
2988803

Inline compact controller with Ethernet interface for coupling to other controllers and systems

Approvals

Order No.	UL		CSA	Ship	EX		ATEX	IEC Ex	DeviceNet™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	Railway standard EN 50135, 50121-4	EAC	Startup at -40°C	Installation height	
	CE	UL Listed UL 508			UL/C-UL Listed UL 508	UL/C-UL Recognized UL 60950	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D	UL 1310 NEC Class 2	CSA 22.2 No 107.1-01	CSA 22.2 No 60950-1-07	GL - Germanischer Lloyd	ABS - American Bureau of Shipping	BV - Bureau Veritas	LR - Lloyd's Register	NK - Nippon Kaiji Kyokai	DNV - Det Norske Veritas	RINA
QUINT POWER power supplies																	
QUINT-PS/1AC/24DC/3.5	2866747	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
QUINT-PS/1AC/24DC/5	2866750	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/1AC/24DC/10	2866763	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
QUINT-PS/1AC/24DC/20	2866776	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/1AC/24DC/40	2866789	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	b
QUINT-PS/1AC/12DC/15	2866718	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
QUINT-PS/1AC/12DC/20	2866721	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/1AC/48DC/5	2866679	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
QUINT-PS/1AC/48DC/10	2866682	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/1AC/48DC/20	2866695	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/3AC/24DC/5	2866734	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
QUINT-PS/3AC/24DC/10	2866705	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	b
QUINT-PS/3AC/24DC/20	2866792	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
QUINT-PS/3AC/24DC/40	2866802	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	b
QUINT-PS/3AC/48DC/20	2320827	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	b
QUINT-PS/1AC/24DC/5/CO	2320908	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/1AC/24DC/10/CO	2320911	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
QUINT-PS/1AC/24DC/20/CO	2320898	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/3AC/24DC/20/CO	2320924	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
TRIO POWER power supplies																	
TRIO-PS-2G/1AC/24DC/3C2LPS	2902147	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
TRIO-PS-2G/1AC/24DC/5	2903148	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
TRIO-PS-2G/1AC/24DC/10	2903149	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
TRIO-PS-2G/1AC/24DC/20	2903151	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
TRIO-PS/1AC/12DC/5	2866475	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
TRIO-PS/1AC/12DC/10	2866488	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
TRIO-PS/1AC/48DC/5	2866491	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	a
TRIO-PS/1AC/48DC/10	2866501	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	b
TRIO-PS-2G/3AC/24DC/5	2903148	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
TRIO-PS-2G/3AC/24DC/10	2903148	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
TRIO-PS-2G/3AC/24DC/20	2903148	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
TRIO-PS/3AC/24DC/40	2866404	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	b

Order No.	UL			CSA			Ship		EX																	
	CE	UL Listed UL 508	UL/C-UL Listed UL 508	UL/C-UL Recognized UL 60950	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D	UL 1310 NEC Class 2	CSA 22.2 No 1071-01	CSA 22.2 No 60950-1-07	GL - Germanischer Lloyd	ABS - American Bureau of Shipping	BV - Bureau Veritas	LR - Lloyd's Register	NK - Nippon Kaiji Kyokai	DNV - Det Norske Veritas	RINA	ATEX	IEC Ex	DeviceNet™	SEMI F47-07/06 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	Railway standard EN 50155, 50121-4	EAC	Startup at -40°C	Installation height	
MINI POWER power supplies																										
MINI-PS-100-240AC/24DC/1.3	2866446	•	•	•	•	•																		•	d	
MINI-SYS-PS-100-240AC/24DC/1.5	2866983	•	•	•	•	•																		•	a	
MINI-SYS-PS-100-240AC/24DC/1.5/EX	2866653	•	•	•	•	•																		•	a	
MINI-PS-100-240AC/24DC/2	2938730	•	•	•	•	•																		•	b	
MINI-PS-100-240AC/24DC/C2LPS	2866336	•	•	•	•	•																		•	a	
MINI-PS-100-240AC/24DC/4	2938837	•	•	•	•	•																		•	a	
MINI-PS-100-240AC/5DC/3	2938714	•	•	•	•	•																		•	b	
MINI-PS-100-240AC/10-15DC/2	2938756	•	•	•	•	•																		•	d	
MINI-PS-100-240AC/10-15DC/8	2866297	•	•	•	•	•																		•	a	
MINI-PS-100-240AC/2x15DC/1	2938743	•	•	•	•	•																		•	b	
UNO POWER power supplies																										
UNO-PS/1AC/24DC/30W	2902991	•	•	•	•	•																		•	•	a
UNO-PS/1AC/24DC/60W	2902992	•	•	•	•	•																		•	•	d
UNO-PS/1AC/24DC/90W/C2LPS	2902994	•	•	•	•	•																		•	•	a
UNO-PS/1AC/24DC/100W	2902993	•	•	•	•	•																		•	•	a
UNO-PS/1AC/24DC/150W	2904376	•	•	•	•	•																		•	•	c
UNO-PS/1AC/24DC/240W	2904372	•	•	•	•	•																		•	•	a
UNO-PS/1AC/5DC/25W	2904374	•	•	•	•	•																		•	•	b
UNO-PS/1AC/5DC/40W	2904375	•	•	•	•	•																		•	•	a
UNO-PS/1AC/12DC/30W	2902998	•	•	•	•	•																		•	•	a
UNO-PS/1AC/12DC/55W	2902999	•	•	•	•	•																		•	•	d
UNO-PS/1AC/12DC/100W	2902997	•	•	•	•	•																		•	•	c
UNO-PS/1AC/15DC/30W	2903000	•	•	•	•	•																		•	•	a
UNO-PS/1AC/15DC/55W	2903001	•	•	•	•	•																		•	•	d
UNO-PS/1AC/15DC/100W	2903002	•	•	•	•	•																		•	•	d
UNO-PS/1AC/48DC/60W	2902995	•	•	•	•	•																		•	•	d
UNO-PS/1AC/48DC/100W	2902996	•	•	•	•	•																		•	•	c
UNO-PS/2AC/24DC/90W/C2LPS	2904371	•	•	•	•	•																		•	•	b

- a) Max. 3000 m
 b) Max. 4000 m
 c) Max. 5000 m
 d) Max. 6000 m
 e) Max. 2000 m

All products receive further approvals on a continual basis.
 For up-to-date information, please refer to the
 Phoenix Contact website under "Downloads" for the
 relevant products.

Order No.	CE	UL	CSA	Ship	EX	
	UL Listed UL 508	UL/CUL Recognized UL 60950	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D	UL 1310 NEC Class 2	CSA 22.2 No 107.1-01	
STEP POWER power supplies						
STEP-PS/48AC/24DC/0.5	2868716	•	•	•	•	• • b
STEP-PS/1AC/24DC/0.5	2868596	•	•	•	•	• • b
STEP-PS/1AC/24DC/0.75FL	2868622	•	•	•	•	• • c
STEP-PS/1AC/24DC/0.75	2868635	•	•	•	•	• • c
STEP-PS/1AC/24DC/1.75	2868648	•	•	•	•	• • c
STEP-PS/1AC/24DC/2.5	2868651	•	•	•	•	• • a
STEP-PS/1AC/24DC/3.8/C2LPS	2868677	•	•	•	•	• • d
STEP-PS/1AC/24DC/4.2	2868664	•	•	•	•	• • d
STEP-PS/277AC/24DC/3.5	2904945	•	•	•	•	•
STEP-PS/1AC/5DC/2	2320513	•	•	•	•	• b
STEP-PS/1AC/5DC/6.5	2868541	•	•	•	•	• • d
STEP-PS/1AC/15DC/4	2868619	•	•	•	•	• • c
STEP-PS/1AC/48DC/2	2868680	•	•	•	•	• • d
STEP-PS/1AC/12DC/1	2868538	•	•	•	•	• • b
STEP-PS/1AC/12DC/1.5FL	2868554	•	•	•	•	• • c
STEP-PS/1AC/12DC/1.5	2868567	•	•	•	•	• • c
STEP-PS/1AC/12DC/3	2868570	•	•	•	•	• • c
STEP-PS/1AC/12DC/5	2868583	•	•	•	•	• • d

Order No.	CE	UL	CSA	Ship	EX	
	UL Listed UL 508	UL/CUL Recognized UL 60950	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D	UL 1310 NEC Class 2	CSA 22.2 No 107.1-01	
Redundancy modules						
QUINT-ORING/24DC/2x10/1x20	2320173	•	•	•	•	• •
QUINT-ORING/24DC/2x20/1x40	2320186	•	•	•	•	• •
QUINT-ORING/24DC/2x40/1x80	2902879	•	•	•	•	• •
QUINT-DIODE/24DC/2x20A	2320157	•	•	•	•	• •
QUINT-DIODE/48DC/2x20A	2320160	•	•	•	•	• •
TRIO-DIODE/12-24DC/2x10/1x20	2866514	•	•	•	•	• •
TRIO-DIODE/48DC/2x10/1x20	2866527	•	•	•	•	• •
STEP-DIODE/5-24DC/2x5/1x10	2868606	•	•	•	•	• •
UNO-DIODE/5-24DC/2x10/1x20	2905489	•	•	•	•	• •

Order No.	CE	UL		CSA	Ship	EX	
		UL Listed UL 508	UL/CUL Listed UL 508			UL/CUL Recognized UL 60950	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D
DC/DC converters							
QUINT-PS/24DC/24DC/5	2320034	•	•	•	•	•	UL Listed UL 508
QUINT-PS/24DC/24DC/10	2320092	•	•	•	•	•	UL/CUL Listed UL 508
QUINT-PS/24DC/24DC/20	2320102	•	•	•	•	•	UL/CUL Recognized UL 60950
QUINT-PS/24DC/12DC/8	2320115	•	•	•	•	•	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D
QUINT-PS/24DC/48DC/5	2320128	•	•	•	•	•	UL 1310 NEC Class 2
QUINT-PS/12DC/24DC/5	2320131	•	•	•	•	•	CSA 22.2 No 107.1-01
QUINT-PS/12DC/12DC/8	2905007	•	•	•	•	•	CSA 22.2 No 60950-1-07
QUINT-PS/48DC/24DC/5	2320144	•	•	•	•	•	GL - Germanischer Lloyd
QUINT-PS/48DC/48DC/5	2905008	•	•	•	•	•	ABS - American Bureau of Shipping
QUINT-PS/60-72DC/24DC/10	2905009	•	•	•	•	•	BV - Bureau Veritas
QUINT-PS/96-110DC/24DC/10	2905010	•	•	•	•	•	LR - Lloyd's Register
QUINT-PS/24DC/24DC/5/CO	2320542	•	•	•	•	•	NK - Nippon Kaiji Kyokai
QUINT-PS/24DC/24DC/10/CO	2320555	•	•	•	•	•	DNV - Det Norske Veritas
QUINT-PS/24DC/24DC/20/CO	2320568	•	•	•	•	•	RINA
QUINT-PS/60-72DC/24DC/10/CO	2905011	•	•	•	•	•	ATEX
QUINT-PS/96-110DC/24DC/10/CO	2905012	•	•	•	•	•	IEC Ex
MINI-PS-12-24DC/24DC/1	2866284	•	•	•	•	•	DeviceNet™
MINI-PS-12-24DC/5-15DC/2	2320018	•	•	•	•	•	SEMI F47-0706 Compliance Certificate
MINI-PS-12-24DC/48DC/0.7	2320021	•	•	•	•	•	PQ Star
MINI-PS-48-60DC/24DC/1	2866271	•	•	•	•	•	CB Scheme
MINI-PS/10-42AC/15-60DC/3	2320199	•	•	•	•	•	Medical standard IEC 60601

Order No.	CE	UL		CSA	Ship	EX	
		UL Listed UL 508	UL/CUL Listed UL 508			UL/CUL Recognized UL 60950	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D
Power supplies for frequency inverters							
QUINT-PS/2AC/1DC/24DC/20	2320830	•	•	•	•	•	UL 1310 NEC Class 2
TRIO-PS/600DC/24DC/20	2866530	•	•	•	•	•	CSA 22.2 No 107.1-01
				GL - Germanischer Lloyd	ABS - American Bureau of Shipping	DeviceNet™	SEMI F47-0706 Compliance Certificate
				BV - Bureau Veritas	DNV - Det Norske Veritas	PQ Star	PQ Star
				LR - Lloyd's Register	RINA	ATEX	CB Scheme
				NK - Nippon Kaiji Kyokai	ATEX	DeviceNet™	Medical standard IEC 60601
				DNV - Det Norske Veritas	DeviceNet™	SEMI F47-0706 Compliance Certificate	Railway standard EN 50155
				RINA	DeviceNet™	PQ Star	EAC
				ATEX	DeviceNet™	SEMI F47-0706 Compliance Certificate	EN 50155
				DeviceNet™	DeviceNet™	PQ Star	EN 50121
				DeviceNet™	DeviceNet™	PQ Star	Startup at -40°C
				DeviceNet™	DeviceNet™	PQ Star	Installation height

Order No.	UL			CSA	Ship	EX																
	CE	UL Listed UL 508	UL/CUL Listed UL 508	UL/CUL Recognized UL 60950	UL 1778	UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D	UL 1310 NEC Class 2	CSA 22.2 No 107.1-01	CSA 22.2 No 60950-1-07	GL - Germanischer Lloyd	ABS - American Bureau of Shipping	BV - Bureau Veritas	LR - Lloyd's Register	NK - Nippon Kaiji Kyokai	DNV - Det Norske Veritas	RINA	ATEX	DeviceNet™	CB Scheme	Medical standard IEC 60601	EAC	Startup at -40°C
Uninterruptible power supplies																						
QUINT-UPS/24DC/24DC/5	2320212	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-UPS/24DC/24DC/10	2320225	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-UPS/24DC/24DC/20	2320238	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-UPS/24DC/24DC/40	2320241	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-UPS/24DC/12DC/5/24DC/10	2320461	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	e
QUINT-UPS/24DC/24DC/5/1.3AH	2320254	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-UPS/24DC/24DC/10/3.4AH	2320267	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-UPS/1AC/1AC/500VA	2320270	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	e
QUINT-BUFFER/24DC/40	2320393	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	e
UPS-BAT/VRLA/24DC/1.3AH	2320296	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-BAT/VRLA/24DC/3.4AH	2320306	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-BAT/VRLA/24DC/7.2AH	2320319	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-BAT/VRLA/24DC/12AH	2320322	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-BAT/VRLA/24DC/38AH	2320335	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-BAT/VRLA-WTR/24DC/13AH	2320416	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-BAT/VRLA-WTR/24DC/26AH	2320429	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-BAT/LI-ION/24DC/120WH	2320351	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-CAP/24DC/10A/10KJ	2320377	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
UPS-CAP/24DC/20A/20KJ	2320380	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
STEP-UPS/24DC/24DC/3	2868703	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	e
STEP-UPS/12DC/12DC/4	2868693	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	e
STEP-BAT/LIPO/18,5DC/1.4AH	2320364	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	e
TRIO-UPS/1AC/24DC/5	2866611	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
MINI-DC-UPS/24DC/2	2866640	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c
MINI-BAT/24DC/0.8AH	2866666	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
MINI-BAT/24DC/1.3AH	2866417	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
MINI-DC-UPS/12DC/4	2866598	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
MINI-BAT/12DC/1.6AH	2866572	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
MINI-BAT/12DC/2.6AH	2866569	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d

- a) Max. 3000 m
b) Max. 4000 m
c) Max. 5000 m
d) Max. 6000 m
e) Max. 2000 m

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