



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 a wide variety of different industries, always offering 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.



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, current 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 designs 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

1000 W

STEP POWER
MINI POWER
UNO POWER
TRIO POWER
QUINT POWER

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
•	•	•	•	•	High operational reliability thanks to long mains buffering times > 20 ms
•	•	•	•	•	Can be connected in parallel for increased performance and redundancy
•	•	•	•	•	Simplified startup thanks to LED function monitoring
•	•	•	•	•	Outdoor installation permitted thanks to wide temperature range
•	•		•	•	Compensation of voltage drops and charging of rechargeable batteries by means of adjustable output voltage
	•			•	Easy-maintenance connection technology thanks to COMBICON connectors (up to and including 10 A)
	•			•	Active function monitoring by means of switching output for remote diagnostics
	•			•	Reliable starting of difficult loads with POWER BOOST power reserve
				•	Error-free operation of three-phase devices even when a phase fails permanently
				•	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

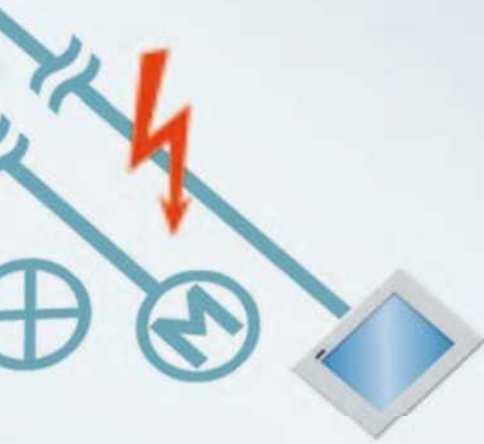
Cost-effective selective protection with SFB technology

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**

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

- 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

- Narrow 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; * 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

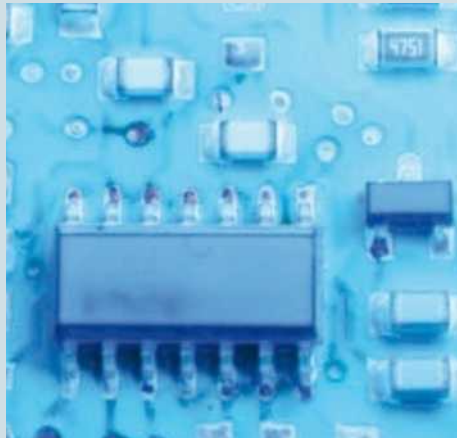
With the standard power supply mounting position, the temperature range increases by 10 K (max. ambient temperature of 70°C); when the mounting position is rotated, position-dependent derating no longer applies. Tool-free mounting.

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 for extreme requirements

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



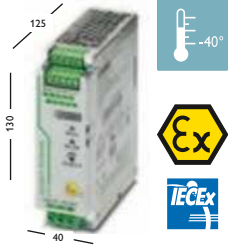



These devices in the QUINT series satisfy the most stringent requirements.

- Protective coating protects against dust, corrosive gases, and 100% humidity as well as failure caused by corrosion-related creepage currents and electrochemical migration
- OVP (Over Voltage Protection) limits surge voltages to 32 V
- Wide temperature range from -40°C ... $+70^{\circ}\text{C}$

QUINT POWER, coated






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

			
1 AC / 24 V / 5 A	1 AC / 24 V / 10 A	1 AC / 24 V / 20 A*	3 AC / 24 V / 20 A
QUINT-PS/1AC/24DC/5/CO 2320908	QUINT-PS/1AC/24DC/10/CO 2320911	QUINT-PS/1AC/24DC/20/CO 2320898	QUINT-PS/3AC/24DC/20/CO 2320924

QUINT DC/DC converters, coated



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

		
24 V / 24 V / 5 A	24 V / 24 V / 10 A	24 V / 24 V / 20 A
QUINT-PS/24DC/24DC/5/CO 2320542	QUINT-PS/24DC/24DC/10/CO 2320555	QUINT-PS/24DC/24DC/20/CO 2320568

TRIO POWER power supplies – robust standard functionality

TRIO POWER combines standard functionality with maximum quality and reliability.

This makes the power supplies ideal for use in the series production of machines.

Your advantages

Robust design

- Metal housing and wide temperature range from -25°C to +70°C

Minimize installation costs

- Third negative terminal block for grounding on the secondary side

High operational reliability

- High MTBF > 500,000 h
- High electric strength of single-phase devices of up to 300 V AC

Compensation of voltage drops

- Output voltage can be set on the front



TRIO POWER 1~

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



24 V / 2.5 A

TRIO-PS/1AC/24DC/2.5
2866268



24 V / 5 A

TRIO-PS/1AC/24DC/5
2866310



24 V / 10 A

TRIO-PS/1AC/24DC/10
2866323



24 V / 20 A

TRIO-PS/1AC/24DC/20
2866381

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

TRIO POWER 3~

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



24 V / 5 A

TRIO-PS/3AC/24DC/5
2866462



24 V / 10 A

TRIO-PS/3AC/24DC/10
2866459



24 V / 20 A

TRIO-PS/3AC/24DC/20
2866394



24 V / 40 A

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

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 100 W, particularly in compact control boxes.



Your advantages

Maximum energy efficiency

- Save energy, thanks to high efficiency of over 90%
- 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 240 W/dm³, e.g., 60 W power in narrow 35 mm housing
- Housing depth of 84 mm, tailored to all popular 120 mm control boxes

Outdoor installation

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





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

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 1~, 2~

Input: 1-phase, 85 ... 264 V AC/2-phase, 264 ... 575 V AC



24 DC / 90 W

UNO-PS/1AC/24DC/90W/C2LPS
2902994

Certified according to
UL 1310/508 Listed Class 2



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

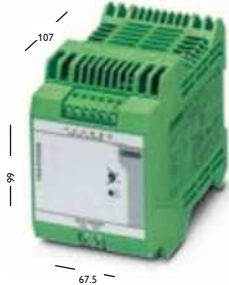
5 V / 3 A

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

Certified according to UL 1310/508 Listed Class 2



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

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 onto 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 home 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

	 Flat design		
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

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

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

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



SFB
TECHNOLOGY



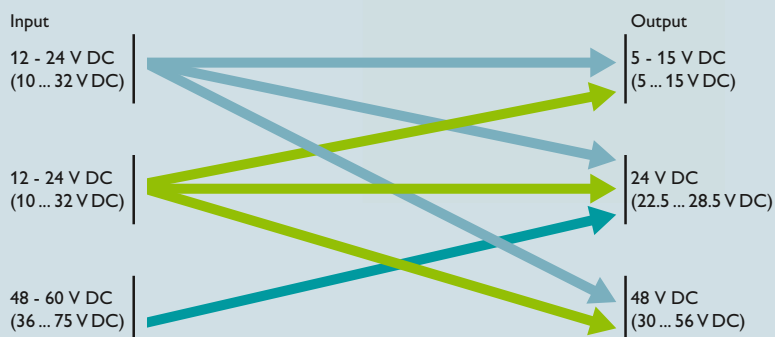
Matching voltage levels

When it comes to altering voltage levels, you will find suitable modules in the DC/DC converter product range.

Voltage levels of QUINT DC/DC converters



Voltage levels of MINI DC/DC converters



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 / 12 DC / 8 A

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



24 DC / 24 DC / 10 A

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

24 DC / 48 DC / 5 A

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



24 DC / 24 DC / 20 A

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

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



12 DC / 24 DC / 5 A

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

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



48 DC / 24 DC / 5 A

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

QUINT DC/DC converters, coated

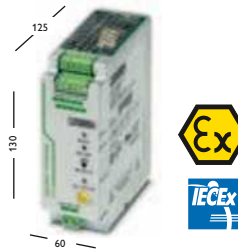


Input: 1-phase, 18 ... 32 V DC



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



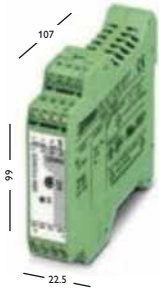
24 V / 24 V / 20 A

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

For details on protective coating, see page 11.

MINI DC/DC converters

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



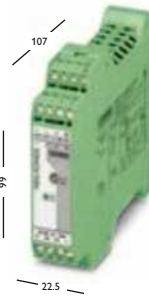
12 ... 24 DC / 24 DC / 1 A

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



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

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



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

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

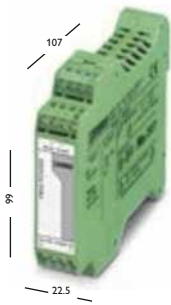


12 ... 24 DC / 48 DC / 0.7 A

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

Accessories for MINI DC/DC converters

Input: 1-phase, 10 ... 42 V AC



- AC power terminal block supplies MINI DC/DC converters
- AC voltage of a transformer is rectified and filtered

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

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

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)

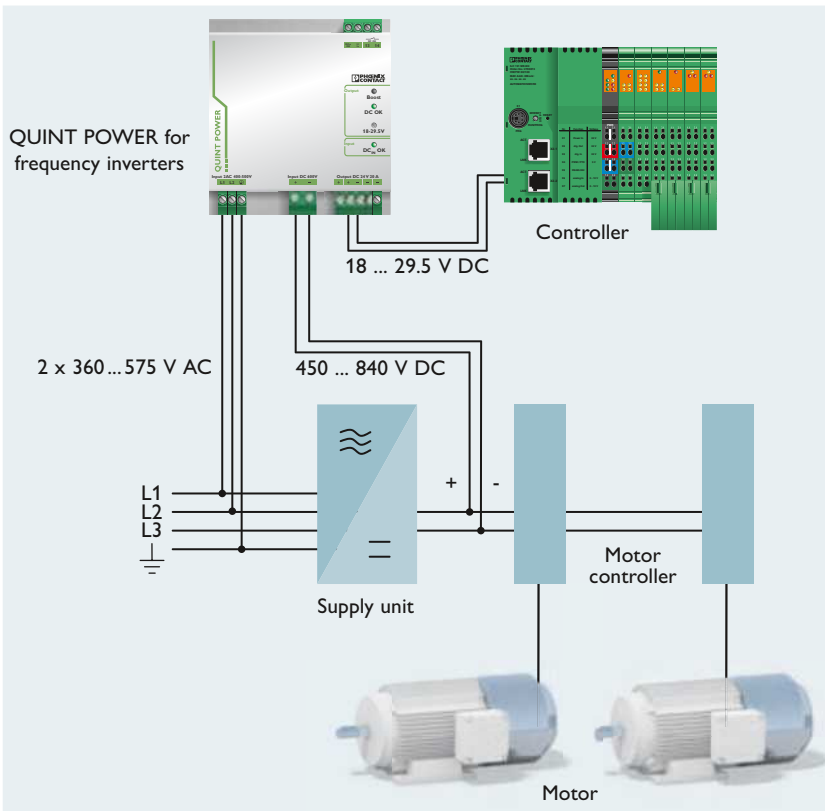
Preventive function monitoring

- 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

- 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 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 and 450 ... 840 V DC



24 V / 20 A

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

Active redundancy module for superior system availability through 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.

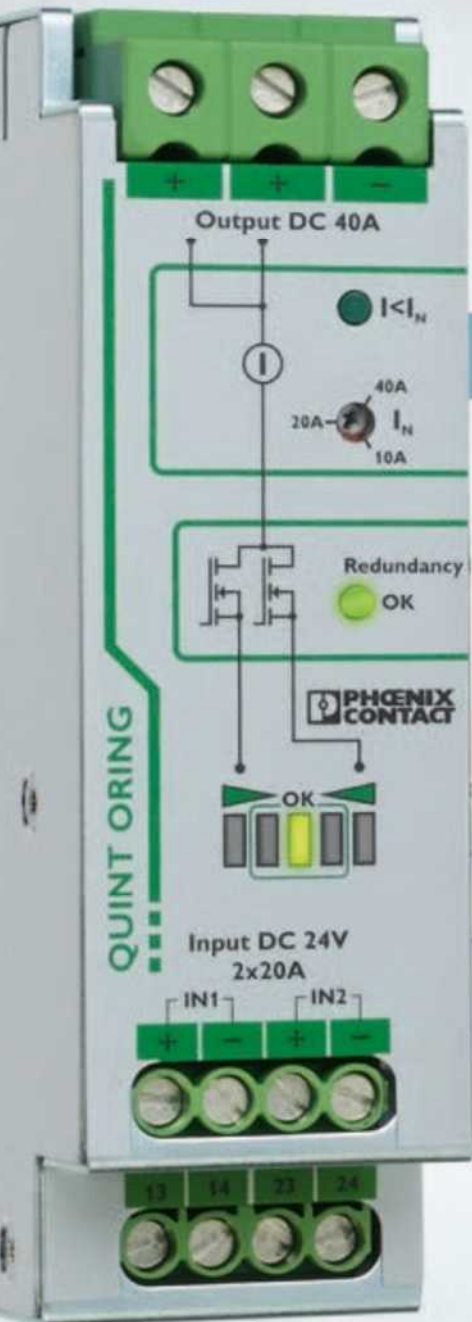


ACB technology doubles the service life

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.



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 uniform 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

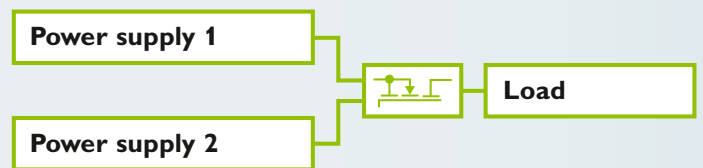
Decoupling, monitoring, and controlling redundancy modules

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 should be monitored. The following are ideal solutions:

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

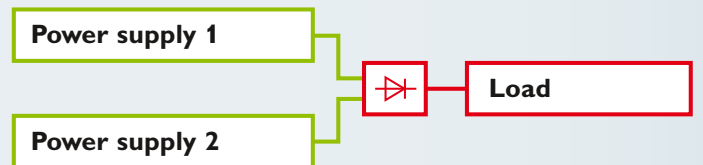
Decoupling, monitoring, and control

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



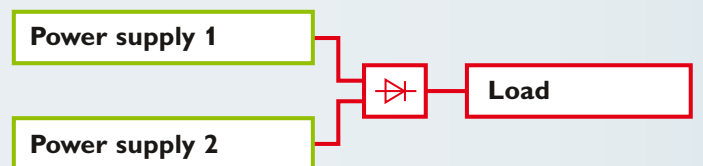
Decoupling and monitoring

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



Decoupling

Decoupling with diode

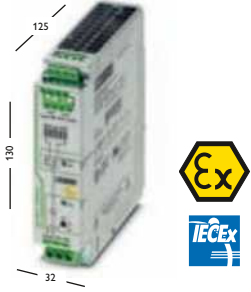


— Monitored
— Not monitored

QUINT ORING



Input: 18 ... 28 V DC



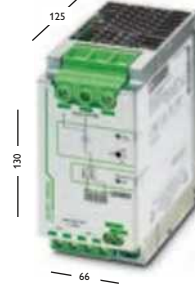
24 V / 2 x 10 A / 1 x 20 A

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

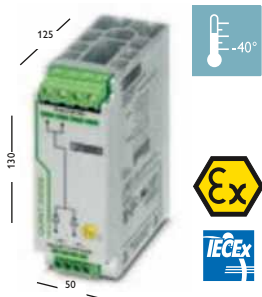


48 V / 2 x 10 A / 1 x 20 A

TRIO-DIODE/48DC/2x10/1x20
2866527

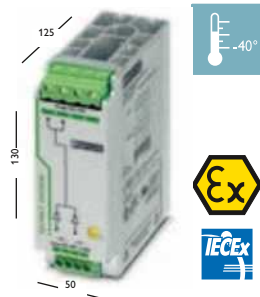
QUINT DIODE

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 through IQ technology

Uninterruptible power supplies (UPS) continue to deliver power even in 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 maximize the service life of power storage.
- You 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

Compact versions are also available:

Flexible

QUINT UPS module with two output voltages (12 and 24 V DC) in one device (page 39)

Maintenance-free

QUINT BUFFER module for failures lasting several seconds, combines a UPS module and maintenance-free capacitors in the same housing (page 47)

Easy to retrofit

Two modules from the QUINT UPS series combine the UPS module and power storage in the same housing (page 47)



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) – 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 via 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

Fast 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

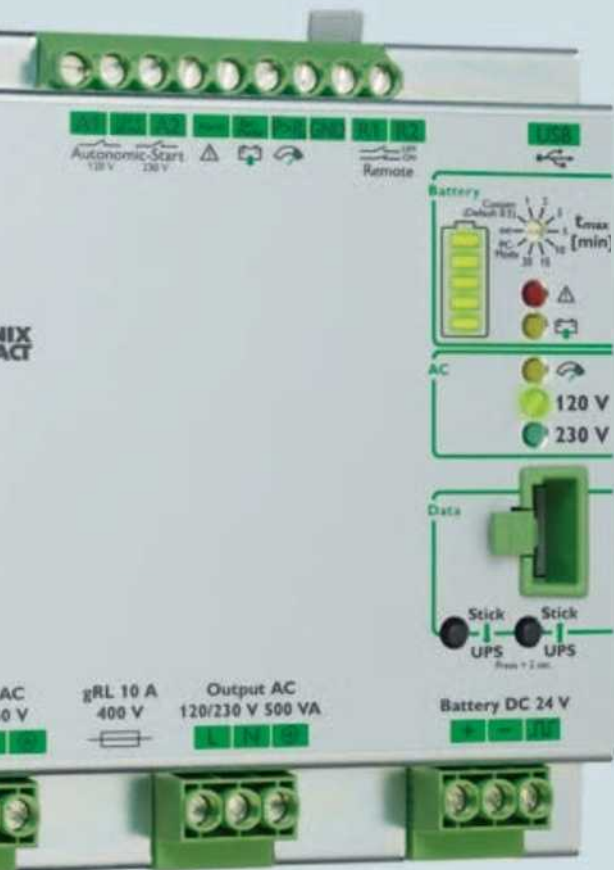
IQ
TECHNOLOGY

SFB
TECHNOLOGY



Power supply **UPS module** Power storage

UPS module for AC applications



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 80 ... 264 V AC
- Pure sine curve at the output
- 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 preselection is 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 (cold restart)



Power supply



UPS module



Power storage

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 to +60°C
UPS-BAT/LI-ION...	> 40 min.	-20 to +58°C
UPS-BAT/VRLA-WTR...	> 5 h	-40 to +60°C
UPS-BAT/VRLA...	> 8 h	0 to +40°C



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

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



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

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

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	0.5 kg
15 years	1.5 years	300	1.3 kg
6 to 9 years	1 year	250	1 kg

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



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



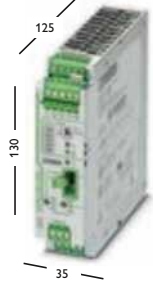
UPS module



Power storage

DC UPS modules

Dual output



24 V / 5 A

**QUINT-UPS/
24DC/24DC/5**
2320212

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

24 V / 10 A

**QUINT-UPS/
24DC/24DC/10**
2320225

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

24 V / 20 A

**QUINT-UPS/
24DC/24DC/20**
2320238

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

24 V / 40 A

**QUINT-UPS/
24DC/24DC/40**
2320241

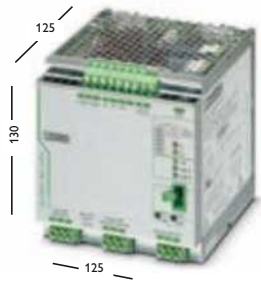
Recommended:
UPS-BAT/VRLA-WTR

12 V / 5 A, 24 V / 10 A

**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

**UPS-CAP/
24DC/10A/10KJ**
2320377



20 A / 20 kj

**UPS-CAP/
24DC/20A/20KJ**
2320380



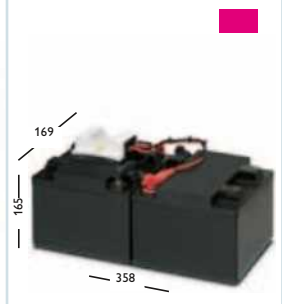
120 WH

**UPS-BAT/LI-ION/
24DC/120WH**
2320351



13 Ah

**UPS-BAT/VRLA-WTR/
24DC/13AH**
2320416



26 Ah

**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

↓

Load current	Buffer time															Hours						
	Seconds				Minutes											Hours						
	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	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Orange	Red
2 A	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Orange	Red
3 A	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Orange	Red
5 A	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Orange	Red
7 A	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Orange	Red
10 A	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Orange	Red
15 A	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Red
20 A	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Red
25 A	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Red
30 A	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Red
35 A	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Red
40 A	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Red

→

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

↓

Power	Buffer time															Hours						
	Seconds				Minutes											Hours						
	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	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange
35 W	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange
55 W	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange
90 W	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange
125 W	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange
180 W	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange
275 W	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange
400 W	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Orange

→

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

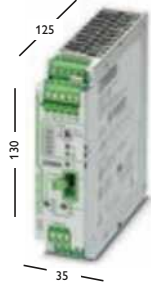
Dual output



24 V / 5 A

**QUINT-UPS/
24DC/24DC/5**
2320212

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



24 V / 10 A

**QUINT-UPS/
24DC/24DC/10**
2320225

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



24 V / 20 A

**QUINT-UPS/
24DC/24DC/20**
2320238

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



24 V / 40 A

**QUINT-UPS/
24DC/24DC/40**
2320241

Recommended:
UPS-BAT/VRLA-WTR

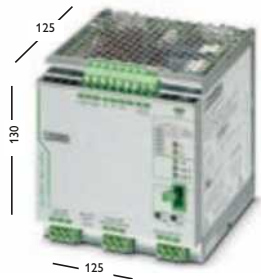


12 V / 5 A, 24 V / 10 A

**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

**UPS-BAT/
VRLA/24DC/1.3AH**
2320296



3.4 Ah

**UPS-BAT/
VRLA/24DC/3.4AH**
2320306



7.2 Ah

**UPS-BAT/
VRLA/24DC/7.2AH**
2320319



12 Ah

**UPS-BAT/
VRLA/24DC/12AH**
2320322



38 Ah

**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.



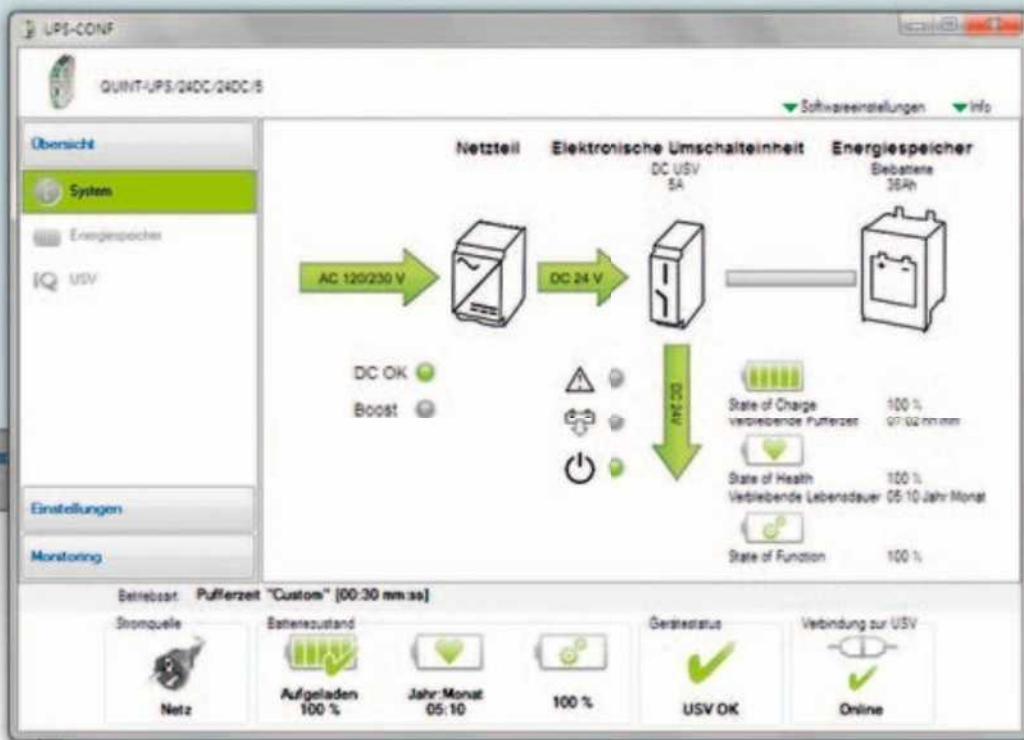
Signaling via contacts

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

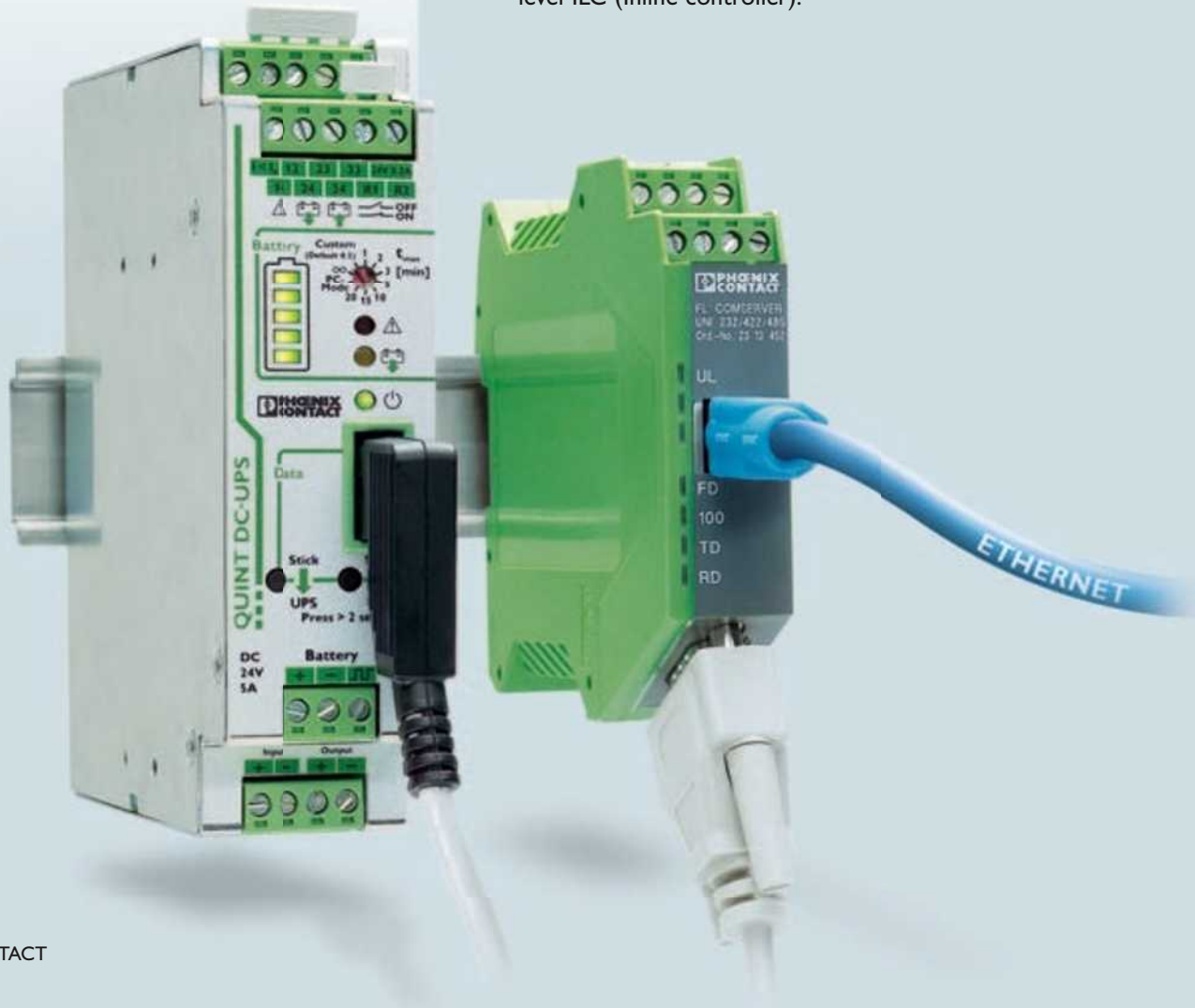
Use the available data cables to integrate the UPS module into your application. You can therefore benefit from all the advantages of IQ technology and be kept informed of the state of your UPS solution.

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.






Communication with the ILC

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





Accessories

		
<p style="text-align: center;">RS-232 data cable</p>	<p style="text-align: center;">Open end data cable</p>	<p style="text-align: center;">MINI DIN data cable</p>
<p style="text-align: center;">IFS-RS232-DATACABLE 2320490</p>	<p style="text-align: center;">IFS-OPEN-END-DATACABLE 2320450</p>	<p style="text-align: center;">IFS-MINI-DIN-DATACABLE 2320487</p>
<ul style="list-style-type: none"> • Modbus communication with RS-232 interface • COM server from Phoenix Contact for Ethernet communication • Address higher-level controllers such as Inline controllers (ILCs) or Remote Field Controllers (RFCs) directly • Use the Inline controller from Phoenix Contact as a gateway and access other communication protocols • Length: 2 m 	<ul style="list-style-type: none"> • Open cable for flexible communication • Length: 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. This 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.



Buffer times for QUINT UPS, QUINT BUFFER, and STEP UPS

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



→ QUINT-UPS/24DC/24DC/10A/3.4AH

Load current	Buffer time															Hours											
	Seconds							Minutes								1	2	3									
	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				
0.5 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green
1 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
2 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
3 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
5 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
7 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
10 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
15 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
20 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
25 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
30 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
35 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow
40 A	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow



Power supply






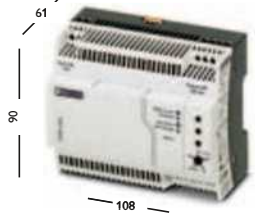



UPS module



Power storage



QUINT UPS  		QUINT BUFFER	STEP UPS
Input: 1-phase, 18 ... 30 V DC		Input: 1-phase, 18 ... 30 V DC	Input: 1-phase, 24 V: 22.5 ... 29.5 V DC, 12 V: 10 ... 16.5 V DC
			
24 DC / 5 A / 1.3 Ah	24 DC / 10 A / 3.4 Ah	24 V / 40 A	24 DC / 24 DC / 3 A
QUINT-UPS/24DC/24DC/5/1.3AH 2320254	QUINT-UPS/24DC/24DC/10/3.4AH 2320267	QUINT-BUFFER/24DC/24DC/40 2320393	STEP-UPS/24DC/24DC/3 2868703
<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 	<ul style="list-style-type: none"> • LiPo-based power storage
			12 DC / 12 DC / 4 A 
			STEP-UPS/12DC/12DC/4 2868693

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 the 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.



Power supply



UPS module



Power storage

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 which is available free of charge 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







	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																	

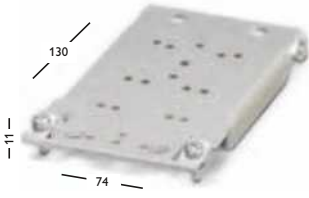
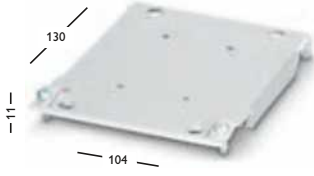
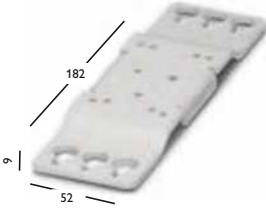
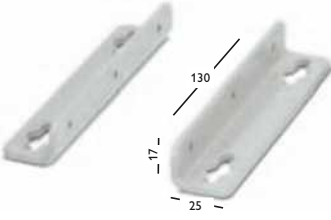
... MINI-BAT for MINI UPS

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





... QUINT-BAT for TRIO UPS

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


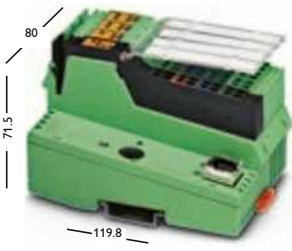
Accessories for power supplies

Mounting on S7-300 rail		Mounting on level surfaces	
			
QUINT-PS adapter S7/1 2938196	QUINT-PS adapter S7/2 2938206	Adapter UWA 182/52 2938235	Adapter UWA 130 2901664
<ul style="list-style-type: none"> For: QUINT-PS/1AC/24DC/3.5, QUINT-PS/1AC/24DC/5, QUINT-PS/3AC/24DC/5 	<ul style="list-style-type: none"> For: QUINT-PS/1AC/24DC/10, QUINT-PS/3AC/24DC/10, QUINT-PS/3AC/24DC/20 	<ul style="list-style-type: none"> For TRIO-PS from 10 A, QUINT-PS, QUINT-DC-UPS, QUINT-BUFFER 	<ul style="list-style-type: none"> For QUINT-PS/1AC/24DC/40, QUINT-UPS/1AC/1AC/500VA

Accessories for uninterruptible power supplies

Power storage mounting		Fuses for power storage	
			
BATTERY MOUNTING KIT 2320788	BATTERY MOUNTING CASE 2320458	SI FORM C 15 A DIN 72581 0913676	CM-SI-1AF 2939014
<ul style="list-style-type: none"> For: UPS-BAT/VRLA/24DC/38AH, UPS-BAT/VRLA-WTR/24DC/13AH, UPS-BAT/VRLA-WTR/24DC/26AH 	<ul style="list-style-type: none"> For: UPS-BAT/VRLA/24DC/38AH, UPS-BAT/VRLA-WTR/24DC/13AH, UPS-BAT/VRLA-WTR/24DC/26AH 	<ul style="list-style-type: none"> Flat-type plug-in fuse Nominal current: 15 A and 25 A 	<ul style="list-style-type: none"> Output fuse 1 A fast-blow and 2 A fast-blow
		SI FORM C 25 A DIN 72581 0913757	CM-SI-2AF 2939027

Ethernet communication

	
FL COMSERVER UNI 232/422/485 2313452	ILC 130 ETH 2988803
<ul style="list-style-type: none"> Integration of serial RS-232, RS-422, and RS-485 interfaces For machine and system access via Ethernet network 	<p>Inline compact controller with Ethernet interface for coupling to other controllers and systems</p>

Approvals

Order No.	CE	UL				CSA		Ship						Ex		DeviceNet™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	Railway standard EN 50155	GOST	Startup at -40°C	Installation height
		UL 508	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	ATEX								
QUINT POWER power supplies																							
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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QUINT-PS/1AC/12DC/15	2866718	•	•	•	•	•	•									•	•	•	•	•	•	•	•
QUINT-PS/1AC/12DC/20	2866721	•	•	•	•	•	•									•	•	•	•	•	•	•	•
QUINT-PS/1AC/48DC/5	2866679	•	•	•	•	•	•									•	•	•	•	•	•	•	•
QUINT-PS/1AC/48DC/10	2866682	•	•	•	•	•	•									•	•	•	•	•	•	•	•
QUINT-PS/1AC/48DC/20	2866695	•	•	•	•	•	•									•	•	•	•	•	•	•	•
QUINT-PS/3AC/24DC/5	2866734	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QUINT-PS/3AC/24DC/10	2866705	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QUINT-PS/3AC/24DC/20	2866792	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QUINT-PS/3AC/24DC/40	2866802	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QUINT-PS/3AC/48DC/20	2320827	•	•	•	•	•	•									•	•	•	•	•	•	•	•
QUINT-PS/1AC/24DC/5/CO	2320908	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
QUINT-PS/1AC/24DC/10/CO	2320911	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
QUINT-PS/1AC/24DC/20/CO	2320898	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
QUINT-PS/3AC/24DC/20/CO	2320924	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•
TRIO POWER power supplies																							
TRIO-PS/1AC/24DC/2.5	2866268	•	•	•		•	•	•												•	•	•	•
TRIO-PS/1AC/24DC/5	2866310	•	•	•		•	•	•												•	•	•	•
TRIO-PS/1AC/24DC/10	2866323	•	•	•		•	•													•	•	•	•
TRIO-PS/1AC/24DC/20	2866381	•	•	•		•	•													•	•	•	•
TRIO-PS/1AC/12DC/5	2866475	•	•	•		•	•													•	•	•	•
TRIO-PS/1AC/12DC/10	2866488	•	•	•		•	•													•	•	•	•
TRIO-PS/1AC/48DC/5	2866491	•	•	•		•	•													•	•	•	•
TRIO-PS/1AC/48DC/10	2866501	•	•	•		•	•													•	•	•	•
TRIO-PS/3AC/24DC/5	2866462	•	•	•		•	•													•	•	•	•
TRIO-PS/3AC/24DC/10	2866459	•	•	•		•	•													•	•	•	•
TRIO-PS/3AC/24DC/20	2866394	•	•	•		•	•													•	•	•	•
TRIO-PS/3AC/24DC/40	2866404	•	•	•		•	•													•	•	•	•

Order No.	CE	UL			CSA	Ship					Ex		DeviceNet™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	Railway standard EN 50155	GOST	Startup at -40°C	Installation height
		UL 508	UL 60950	UL Listed ANSI/ISA-12.12.01 Class 1, 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								
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	•	•	•	•	•	•												•	a
MINI-PS-100-240AC/24DC/C2LPS	2866336	•	•	•	•	•	•												•	a
MINI-PS-100-240AC/24DC/4	2938837	•	•	•	•	•	•												•	a
MINI-PS-100-240AC/5DC/3	2938714	•	•	•	•	•	•												•	a
MINI-PS-100-240AC/10-15DC/2	2938756	•	•	•	•	•	•												•	a
MINI-PS-100-240AC/10-15DC/8	2866297	•	•	•	•	•	•												•	a
MINI-PS-100-240AC/2x15DC/1	2938743	•	•	•	•	•	•												•	b
MINI-PS/10-42AC/15-60DC/3	2320199	•	•	•		•	•												•	
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	•	•	•		•	•	•								•			•	
UNO-PS/1AC/24DC/100W	2902993	•	•	•		•	•	•								•			•	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	•	•	•		•	•	•								•			•	b
UNO-PS/1AC/12DC/100W	2902997	•	•	•		•	•	•								•			•	
UNO-PS/1AC/15DC/30W	2903000	•	•	•		•	•	•								•			•	a
UNO-PS/1AC/15DC/55W	2903001	•	•	•		•	•	•								•			•	b
UNO-PS/1AC/15DC/100W	2903995	•	•	•		•	•	•								•			•	
UNO-PS/1AC/48DC/60W	2902996	•	•	•		•	•	•								•			•	
UNO-PS/1AC/48DC/100W	2903000	•	•	•		•	•	•								•			•	
UNO-PS/2AC/24DC/90W/C2LPS	2904371	•	•	•		•	•	•								•			•	a

- 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 508	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	ATEX	IEC Ex	DeviceNet™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	Railway standard EN 50155	GOST	Startup at -40°C	Installation height			
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/1AC/5DC/2	2320513	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
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 508	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	ATEX	IEC Ex	DeviceNet™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	GS - Geprüfte Sicherheit (tested safety)	Type tested	GOST	Startup at -40°C			
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.	UL				CSA	Ship				Ex		DeviceNet™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	Railway standard EN 50155	GOST	EN 50155	EN 50121	Startup at -40°C	Installation height
	CE	UL 508	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										
DC/DC converters																					
QUINT-PS/24DC/24DC/5	2320034	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/24DC/24DC/10	2320092	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/24DC/24DC/20	2320102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/24DC/12DC/8	2320115	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/24DC/48DC/5	2320128	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	d
QUINT-PS/12DC/24DC/5	2320131	•	•	•	•	•	•									•	•	•	•	•	d
QUINT-PS/48DC/24DC/5	2320144	•	•	•	•	•	•									•	•	•	•	•	d
QUINT-PS/24DC/24DC/5/CO	2320542	•	•	•	•	•	•									•	•	•	•	•	d
QUINT-PS/24DC/24DC/10/CO	2320555	•	•	•	•	•	•									•	•	•	•	•	d
QUINT-PS/24DC/24DC/20/CO	2320568	•	•	•	•	•	•									•	•	•	•	•	d
MINI-PS-12-24DC/24DC/1	2866284	•	•	•	•	•	•												•	•	d
MINI-PS-12-24DC/5-15DC/2	2320018	•	•	•	•	•	•												•	•	d
MINI-PS-12-24DC/48DC/0.7	2320021	•	•	•	•	•	•												•	•	d
MINI-PS-48-60DC/24DC/1	2866271	•	•	•	•	•	•												•	•	d

Order No.	UL				CSA	Ship				Ex		DeviceNet™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	Railway standard EN 50155	GOST	EN 50155	EN 50121	Startup at -40°C	Installation height
	CE	UL 508	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										
Power supplies for frequency inverters																					
QUINT-PS/2AC/1DC/24DC/20	2320830	•	•	•	•																
TRIO-PS/600DC/24DC/20	2866530	•	•	•	•	•	•														

Order No.	UL				CSA	Ship				Ex													
	CE	UL 508	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™	SEMI F47-0706 Compliance Certificate PQ Star	CB Scheme	Medical standard IEC 60601	GOST	Startup at -40°C	Installation height
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/2DC/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

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.



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