

Power supplies for the DIN rail

## QUINT POWER

### Powerful with SFB Technology

The powerful QUINT POWER power supplies with SFB Technology, preventive function monitoring, and configurable settings ensure the availability of your system.



#### Your advantages >100 W

- ✔ SFB Technology selectively trips standard miniature circuit breakers
- ✔ Preventive function monitoring reports critical operating states before faults occur
- ✔ Power reserves for easy system expansion and starting difficult loads
- ✔ High efficiency, long service life, and maximum immunity with integrated gas discharge tube
- ✔ Available preconfigured: from a batch quantity of just 1

**SFB Technology**   
Designed by Phoenix Contact

# Technologies and advantages

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## SFB (Selective Fuse Breaking) Technology

For high system availability, standard miniature circuit breakers must be tripped magnetically so that faulty current paths can be switched off selectively. SFB Technology supplies several times the nominal current for a short period, thus providing the necessary power reserve.

- Six times the nominal current for 15 ms trips standard miniature circuit breakers quickly and reliably
- When short circuits occur, faulty current paths are disconnected selectively
- Faults are isolated to ensure that key system parts remain in operation without interruptions



**SFB Technology**

Designed by Phoenix Contact

## QUINT POWER >100 W

### Powerful with SFB Technology

Our QUINT POWER power supplies with SFB Technology are ideally suited for ensuring the availability of your system. The power reserve enables easy system expansion as well as the trouble-free starting of difficult loads. Static boost with sustained power of up to 125% is available for system expansion. Dynamic boost of up to 200% for 5 s enables you to start difficult loads.

The range of features is rounded out by the customized configuration of signaling thresholds and characteristic curves.



**SFB Technology**

Designed by Phoenix Contact

## QUINT POWER with IO-Link

The new communicative QUINT POWER power supply with IO-Link can be integrated into industrial networks quickly and easily.

With the integrated IO-Link interface, all the relevant operating data of the power supply, from the 3 AC side to the 24 V DC side, can be made available to the higher-level automation system. Calculating the usage-dependent service life enables predictive maintenance, raising preventive function monitoring to an entirely new level.

The power supply also enables parameterization via IO-Link. The parameterization is adopted directly after a device is replaced, saving time and avoiding user errors.





➤ More information starting on page 12




**SFB Technology**



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# QUINT POWER >100 W





	QUINT POWER, 1~				SFB Technology <sup>®</sup> Designed by Phoenix Contact
					
Input	85 V AC ... 264 V AC 90 V DC ... 350 V DC	85 V AC ... 264 V AC 90 V DC ... 350 V DC	85 V AC ... 264 V AC 90 V DC ... 350 V DC	85 V AC ... 264 V AC 90 V DC ... 350 V DC	
W x H x D in mm	36 x 130 x 125	50 x 130 x 125	70 x 130 x 125	120 x 130 x 140	

	24 V / 5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A
Type	QUINT4-PS/1AC/24DC/5	QUINT4-PS/1AC/24DC/10	QUINT4-PS/1AC/24DC/20	QUINT4-PS/1AC/24DC/40
Item no.	2904600	2904601	2904602	2904603
	48 V / 5 A	48 V / 10 A	48 V / 20 A	
Type		QUINT4-PS/1AC/48DC/5	QUINT4-PS/1AC/48DC/10	QUINT4-PS/1AC/48DC/20
Item no.		2904610	2904611	2904612
	12 V / 15 A			
Type		QUINT4-PS/1AC/12DC/15		
Item no.		2904608		



	QUINT POWER, 1~		SFB Technology <sup>®</sup> Designed by Phoenix Contact
			
Input	85 V AC ... 264 V AC 90 V DC ... 350 V DC		
W x H x D in mm	70 x 130 x 125		
	110 V / 4 A		
Type	QUINT4-PS/1AC/110DC/4		
Item no.	2904613		

	QUINT POWER, 1~, with protective coating for extreme environments		SFB Technology <sup>®</sup> Designed by Phoenix Contact
			
Input	85 V AC ... 264 V AC 90 V DC ... 350 V DC	85 V AC ... 264 V AC 90 V DC ... 350 V DC	
W x H x D in mm	50 x 130 x 125	70 x 130 x 125	
	24 V / 10 A / CO	48 V / 10 A / CO	
Type	QUINT4-PS/1AC/24DC/10/CO	QUINT4-PS/1AC/48DC/10/CO	
Item no.	2904625	2904626	

QUINT POWER >100 W

	QUINT POWER, 3~ <div>SFB Technology<sup>TM</sup> Designed by Phoenix Contact</div>			
				
Input	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC 390 V DC ... 780 V DC	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC 450 V DC ... 780 V DC	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC 450 V DC ... 780 V DC	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC 450 V DC ... 780 V DC
W x H x D in mm	36 x 130 x 125	50 x 130 x 125	70 x 130 x 125	120 x 130 x 125

	24 V / 5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A
Type	QUINT4-PS/3AC/24DC/5	QUINT4-PS/3AC/24DC/10	QUINT4-PS/3AC/24DC/20	QUINT4-PS/3AC/24DC/40
Item no.	2904620	2904621	2904622	2904623
				48 V / 20 A
Type				QUINT4-PS/3AC/48DC/20
Item no.				2904627

	QUINT POWER, 3~, with protective coating for extreme environments <div>SFB Technology<sup>TM</sup> Designed by Phoenix Contact</div>	
		
Input	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC ±226 V DC ... 390 V DC	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC ±226 V DC ... 390 V DC
W x H x D in mm	70 x 130 x 125	120 x 130 x 125

	24 V / 20 A <div>NEW</div>	24 V / 40 A <div>NEW</div>
Type	QUINT4-PS/3AC/24DC/20/CO	QUINT4-PS/3AC/24DC/40/CO
Item no.	1343940	1783052

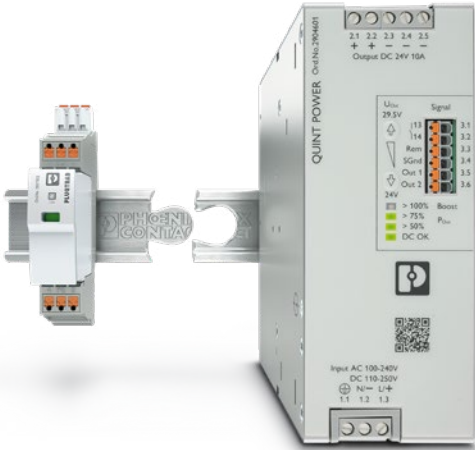
High protection for your system

For extreme operating conditions, use the optimally coordinated combination of PLUGTRAB-SEC surge protection and powerful 4th generation QUINT POWER power supply.

5-year warranty


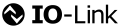

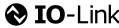
If your 4th generation QUINT POWER becomes damaged in the first five years following purchase despite using this combination, you will receive a free replacement.

For further information and terms and conditions, search item no. [2907928](https://www.phoenixcontact.com) at [phoenixcontact.com](https://www.phoenixcontact.com).



# 1 QUINT POWER with IO-Link

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QUINT POWER, 3~		SFB Technology <sup>®</sup> Designed by Phoenix Contact
	 	 
Input	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC 450 V DC ... 780 V DC	3 x 320 V AC ... 550 V AC 2 x 360 V AC ... 550 V AC 450 V DC ... 780 V DC
W x H x D in mm	70 x 130 x 125	120 x 130 x 125
	<b>24 V / 20 A</b>	<b>24 V / 40 A</b>
Type	QUINT4-PS/3AC/24DC/20/IOL	QUINT4-PS/3AC/24DC/40/IOL
Item no.	<a href="#">1151048</a>	<a href="#">1151047</a>

## Communicative 24 V supply system – the system that knows more

The modular system consists of the communicative QUINT POWER power supplies, CAPAROC circuit breakers, and the intelligent QUINT DC UPS. It offers complete data consistency, from the

primary side right through to the protected load circuits. It provides information on all relevant operating and diagnostic data for preventive function monitoring with minimal downtimes.

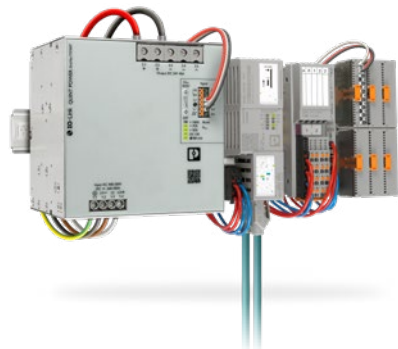


### The uninterruptible system

Combine the QUINT POWER power supply with the intelligent QUINT DC UPS (from rev. 05) to create an uninterruptible 24 V supply system that provides all data from the power supply right through to the battery.

- The QUINT DC UPS provides interfaces and protocols for different industrial networks
- The corresponding software packages for the PLCnext, TIA Portal, Studio 5000, and TwinCAT engineering environments are included
- The POWER MANAGEMENT SUITE software can be used for function monitoring and configuration of the entire system

➤ More information starting on page 68



### Direct connection to the controller

The integrated IO-Link interface enables the QUINT POWER power supply to be easily integrated into the control environment, so that all important data is available at a glance:













- Complete data consistency from the 400 V AC side to the 24 V DC side for comprehensive energy and grid monitoring
- Digital nameplate for easy device identification
- Status monitoring of temperature and service life
- Event and status messages for early error detection
- Easy replacement of configured devices, as the configuration is automatically transferred by the IO-Link master





➤ More information on QUINT POWER and CAPAROC on page 18

# QUINT POWER for demanding environments

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QUINT POWER, 1~, with protective coating, decoupling MOSFET				SFB Technology <sup>®</sup> Designed by Phoenix Contact					
		  			  		  		
Input	85 V AC ... 264 V AC 90 V DC ... 350 V DC			85 V AC ... 264 V AC 90 V DC ... 350 V DC			85 V AC ... 264 V AC 90 V DC ... 350 V DC		
W x H x D in mm	50 x 130 x 125			70 x 130 x 125			120 x 130 x 140		
	24 V / 10 A / +			24 V / 20 A / +			24 V / 40 A / +		
Type	QUINT4-PS/1AC/24DC/10/+			QUINT4-PS/1AC/24DC/20/+			QUINT4-PS/1AC/24DC/40/+		
Item no.	2904616			2904617			2904618		

QUINT POWER, 1~, with protective coating, decoupling MOSFET, fixed configuration				SFB Technology <sup>®</sup> Designed by Phoenix Contact		
						
Input	85 V AC ... 264 V AC 90 V DC ... 350 V DC			85 V AC ... 264 V AC 90 V DC ... 350 V DC		
W x H x D in mm	50 x 130 x 125			70 x 130 x 125		
	<b>24 V / 10 A / + / F</b> <b>NEW</b>			<b>24 V / 20 A / + / F</b> <b>NEW</b>		
Type	QUINT4-PS/1AC/24DC/10/+ / F			QUINT4-PS/1AC/24DC/20/+ / F		
Item no.	1672244			1672245		

## QUINT POWER Plus versions – the power supplies for demanding applications

The QUINT POWER Plus versions are the solution for complex applications under extreme ambient conditions.

With MOSFET integrated decoupling for 1+1 and n+1 redundancy, the Plus versions provide symmetrical load distribution and increase system availability. Faults are also detected early on by means of configurable output current signaling thresholds. At the same time, you save time and space due to the reduced wiring effort.

The Plus versions have double OVP (overvoltage protection) and thus also protect your system against voltage increases. In the event of an error, the output is switched off to protect the loads against overvoltages.

The functional safety standards and directives ensure reliable protection for people, the environment, and machinery.

The QUINT POWER Plus versions meet these requirements (SIL 3, HFT = 1 in accordance with IEC 61508 and IEC 61511) and thus ensure maximum operational safety.

Use in zone 2 potentially explosive areas is possible due to the protective coating and ATEX and IECEx approval in accordance with standards IEC 60079-0, IEC 60079-7, IEC 60079-11, and IEC 60079-15.

The Plus versions are rounded out by a wide temperature range of -40°C to +75°C for use under extreme ambient conditions.





## Power supplies for the DIN rail

### QUINT POWER – powerful and space-saving

Our small QUINT POWER power supplies cover the power range from 30 to 100 W. These compact power supplies provide you with a perfect combination of preventive function monitoring and exceptional power reserves in a compact size.

Furthermore, you can choose between Push-in and screw connection technology for these power supplies for the low power range.



### Your advantages <100 W

- ✓ Starting difficult loads by using dynamic boost
- ✓ Preventive function monitoring reports critical operating states before faults occur
- ✓ Unrivaled EMI resistance and low noise emission
- ✓ High efficiency and long service life, with low power dissipation and low heating
- ✓ Slim-line design saves space in the control cabinet

## QUINT POWER <100 W

### Powerful and space-saving

QUINT POWER is small in size, yet satisfies the most stringent system demands in the power range up to 100 W. The devices feature preventive function monitoring and exceptional power reserves. The high electromagnetic compatibility and electric strength, combined with low noise emission, enables use in demanding applications. Moreover, the devices have a high efficiency of up to 93.7% and a long service life.

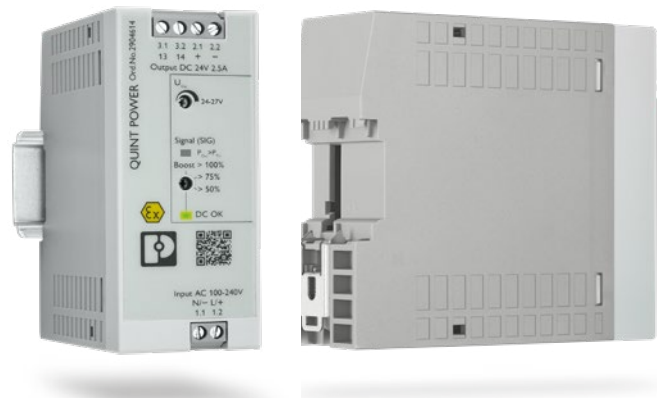
High environmental resistance and marine approvals complete the QUINT POWER power supplies in the low power range.



## QUINT4-SYS for demanding applications

This power supply has been specially developed for supplying power to compatible Phoenix Contact products via the T-bus DIN rail connector. Furthermore, it can be directly latched onto the DIN rail.

The device features a protective coating and has IECEx, ATEX, and HazLoc approvals. The OVP (overvoltage protection) of <30 V DC protects your system against voltage increases. In the event of an error, the output is switched off to protect the loads against overvoltages. The output circuit is decoupled by a MOSFET.



## The power supply for operational amplifiers




The QUINT4-PS/1AC/2X15DC/2/PT stands out with a high degree of reliability at a high power density. It is used in measurement and control technology. It is particularly well-suited for supplying operational amplifiers and sensors. For this purpose, it has two outputs with a nominal current of +15 V DC / 2 A and -15 V DC / 1.4 A respectively.


Furthermore, with this power supply, the signaling of the DC OK contact can be set and power thresholds can be selected freely.





QUINT POWER <100 W

QUINT POWER, Push-in connection, 1~			
			
Input	85 V AC ... 264 V AC 88 V DC ... 350 V DC	85 V AC ... 264 V AC 88 V DC ... 350 V DC	85 V AC ... 264 V AC 88 V DC ... 350 V DC
W x H x D in mm	22.5 x 106 x 90	32 x 106 x 90	45 x 106 x 90
	24 V / 1.3 A	24 V / 2.5 A	24 V / 3.8 A
Type	QUINT4-PS/1AC/24DC/1.3/PT	QUINT4-PS/1AC/24DC/2.5/PT	QUINT4-PS/1AC/24DC/3.8/PT
Item no.	2909575	2909576	2909577
	12 V / 2.5 A		12 V / 7.5 A
Type	QUINT4-PS/1AC/12DC/2.5/PT		QUINT4-PS/1AC/12DC/7.5/PT
Item no.	2904605		2904607
	5 V / 5 A		
Type	QUINT4-PS/1AC/5DC/5/PT		
Item no.	2904595		

QUINT POWER, Push-in connection, 1~			
			
Input	85 V AC ... 264 V AC 88 V DC ... 275 V DC		
W x H x D in mm	45 x 106 x 90		
	2 x 15 V / 2 A		
Type	QUINT4-PS/1AC/2X15DC/2/PT		
Item no.	2904596		

## QUINT POWER <100 W




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QUINT POWER, screw connection, 1~			
			
Input	85 V AC ... 264 V AC 88 V DC ... 350 V DC	85 V AC ... 264 V AC 88 V DC ... 350 V DC	85 V AC ... 264 V AC 88 V DC ... 350 V DC
W x H x D in mm	22.5 x 99 x 90	32 x 99 x 90	45 x 99 x 90
	<b>24 V / 1.3 A</b>	<b>24 V / 2.5 A</b>	<b>24 V / 3.8 A</b>
Type	QUINT4-PS/1AC/24DC/1.3/SC	QUINT4-PS/1AC/24DC/2.5/SC	QUINT4-PS/1AC/24DC/3.8/SC
Item no.	<a href="#">2904597</a>	<a href="#">2904598</a>	<a href="#">2904599</a>

QUINT POWER, screw connection, 1~, with protective coating			
	  		
Input	85 V AC ... 264 V AC 88 V DC ... 350 V DC		
W x H x D in mm	40 x 99 x 114		
	<b>24 V / 2.5 A</b>		
Type	QUINT4-SYS-PS/1AC/24DC/2.5/SC		
Item no.	<a href="#">2904614</a>		