

# QUINT4-PS/1AC/24DC/10/+ - Power supply



2904616

<https://www.phoenixcontact.com/us/products/2904616>

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Primary-switched QUINT POWER supply for DIN rail mounting, with selectable output characteristic curve and SFB (Selective Fuse Breaking) Technology, protective coating and integrated decoupling MOSFET, input: 1-phase, output: 24 V DC / 10 A

## Product description

The fourth generation of the high-performance QUINT POWER power supplies ensures superior system availability by means of new functions. Signaling thresholds and characteristic curves can be individually adjusted via the NFC interface. The unique SFB technology and preventive function monitoring of the QUINT POWER power supply increase the availability of your application.

## Your advantages

- Integrated decoupling MOSFET maximizes system availability and operational safety
- Double overvoltage protection (OVP) switches the output off in the event of an error to reliably protect the loads against overvoltages.
- Protective coating offers protection against dust, corrosive gases, and humidity
- ATEX/IECEx approval in accordance with IEC 60079-0,-7, -11, and -15
- Wide temperature range allows use under extreme ambient conditions of -40°C to +75°C

## Commercial data

Item number	2904616
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM10
Product key	CMPI13
GTIN	4063151023478
Weight per piece (including packing)	1,156.5 g
Weight per piece (excluding packing)	897 g
Customs tariff number	85044095
Country of origin	TH

## Technical data

### Input data

Control input (configurable) Rem	Output power ON/OFF (SLEEP MODE)
Default	Output power ON (>40 k $\Omega$ /24 V DC/open bridge between Rem and SGnd)

### AC operation

Network type	Star network
Input voltage	min. 77 V DC
Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	100 V AC ... 240 V AC -15 % ... +10 %
Derating	< 100 V AC (1 %/V)
Electric strength, max.	300 V AC 60 s
Typical national grid voltage	120 V AC 230 V AC
Voltage type of supply voltage	AC
Inrush current	typ. 15 A (at 25 °C)
Inrush current integral ( $I^2t$ )	< 0.9 A <sup>2</sup> s
Inrush current limitation	15 A (after 1 ms)
AC frequency range	50 Hz ... 60 Hz -10 % ... +10 %
Frequency range ( $f_N$ )	50 Hz ... 60 Hz -10 % ... +10 % 16.7 Hz (acc. to EN 50163)
Mains buffering time	typ. 53 ms (120 V AC) typ. 55 ms (230 V AC)
Current consumption	3.4 A (100 V AC) 2.8 A (120 V AC) 1.5 A (230 V AC) 1.5 A (240 V AC)
Nominal power consumption	274 VA
Protective circuit	Transient surge protection; Varistor, gas-filled surge arrester
Power factor (cos phi)	0.94
Switch-on time	< 1 s
Typical response time	300 ms (from SLEEP MODE)
Input fuse	8 A (slow-blow, internal)
Recommended breaker for input protection	10 A ... 16 A (Characteristic B, C, D, K or comparable)
Discharge current to PE	< 3.5 mA 0.7 mA (264 V AC, 60 Hz)

### DC operation

Input voltage	min. 77 V DC
Nominal input voltage range	110 V DC ... 250 V DC
Input voltage range	110 V DC ... 250 V DC -18 % ... +40 %
Derating	< 110 V DC (1 %/V)

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Voltage type of supply voltage	DC
Current consumption	3 A (110 V DC)
	1.3 A (250 V DC)

## Output data

Efficiency	typ. 92.8 % (120 V AC)
	typ. 93.8 % (230 V AC)
Output characteristic	U/I Advanced
	Smart HICCUP
	FUSE MODE
Nominal output voltage	24 V DC
Setting range of the output voltage ( $U_{Set}$ )	24 V DC ... 28 V DC (constant capacity)
Nominal output current ( $I_N$ )	10 A
Static Boost ( $I_{Stat.Boost}$ )	12.5 A
Dynamic Boost ( $I_{Dyn.Boost}$ )	20 A (5 s)
Selective Fuse Breaking ( $I_{SFB}$ )	60 A (15 ms)
Magnetic circuit breaker tripping	A1...A6 / B2...B6 / C1...C3 / Z1...Z6
Derating	> 60 °C ... 70 °C (2.5 %/K)
Feedback voltage resistance	≤ 35 V DC
Protection against overvoltage at the output (OVP)	< 30 V DC (double protection with shut off within 20 ms)
Control deviation	< 0.5 % (Static load change 10 % ... 90 %)
	< 4 % (Dynamic load change 10 % ... 90 %, (10 Hz))
	< 0.25 % (change in input voltage ±10 %)
Residual ripple	< 50 mV <sub>PP</sub> (with nominal values)
Short-circuit-proof	yes
No-load proof	yes
Output power	240 W
	300 W
	480 W
Apparent power	336 VA (120 V, $U_{OUT} = 24$ V, $I_{OUT} = \text{stat. Boost}$ )
	345 VA (230 V, $U_{OUT} = 24$ V, $I_{OUT} = \text{stat. Boost}$ )
Maximum no-load power dissipation	< 4 W (120 V AC)
	< 4 W (230 V AC)
Power loss nominal load max.	< 19 W (120 V AC)
	< 16 W (230 V AC)
Power dissipation SLEEP MODE	< 3 W (120 V AC)
	< 3 W (230 V AC)
Crest factor	typ. 1.57 (120 V AC)
	typ. 1.59 (230 V AC)
Rise time	< 100 ms ( $U_{Out} = 10$ % ... 90 %)
Connection in parallel	yes, for redundancy and increased capacity
Connection in series	yes
Fuse protection (secondary side)	electronic
	thermal-magnetic

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	thermal
Signal	
Signal ground SGnd	Reference potential for Out1, Out2, and Rem
Signal Out 1 (configurable)	
Digital	24 V DC 20 mA
Default	24 V DC 20 mA 24 V DC for $U_{Out} > 0.9 \times U_{Set}$
Signal Out 2 (configurable)	
Digital	24 V DC 20 mA
Analog	4 mA ... 20 mA $\pm 5\%$ (Load $\leq 400 \Omega$ )
Default	24 V DC 20 mA 24 V DC for $P_{Out} < P_N$
Signal relay 13/14 (configurable)	
Default	closed ( $U_{out} > 0.9 U_{Set}$ )
Digital	24 V DC 1 A
	30 V AC/DC 0.5 A

## Connection data

### Input

Connection method	Screw connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.25 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.25 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	2.5 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	14
Stripping length	6.5 mm
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

### Output

Connection method	Screw connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic	0.25 mm <sup>2</sup>

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sleeve, min.	
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.25 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	2.5 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	14
Stripping length	6.5 mm
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

## Signal

Connection method	Push-in connection
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	1.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	1.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	0.75 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	1.5 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	16
Stripping length	8 mm

## Signaling

Types of signaling	LED
	Floating signal contact
	Active signal output Out1 (digital, configurable)
	Active signal output Out2 (analog, configurable)
	Remote contact
	Signal ground SGnd

## Signal output

Signal option	Output current
	Output voltage
	Output power
	U <sub>IN</sub> input voltage OK
	Operating hours
	Early warning of high temperatures
	OVP voltage limitation active

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P <sub>Out</sub>	> 100 % (LED lights up yellow, output power > 240 W)
	> 75 % (LED lights up green, output power > 180 W)
	> 50 % (LED lights up green, output power > 120 W)
U <sub>Out</sub>	> 0.9 x U <sub>Set</sub> (LED lights up green)
	< 0.9 x U <sub>Set</sub> (LED flashes green)

## Electrical properties

Number of phases	1
Insulation voltage input/output	4 kV AC (type test)
	2 kV AC (routine test)
Switching frequency	90.00 kHz ... 110.00 kHz (Auxiliary converter stage)
	50.00 kHz ... 245.00 kHz (Main converter stage)
	35.00 kHz ... 700.00 kHz (PFC stage)

## Product properties

Product type	Power supply
Product family	QUINT POWER
MTBF (IEC 61709, SN 29500)	> 1165000 h (25 °C)
	> 700000 h (40 °C)
	> 321000 h (60 °C)
Environmental protection directive	RoHS Directive 2011/65/EU
	WEEE
	Reach

## Insulation characteristics

Protection class	I
Degree of pollution	2

## Life expectancy (electrolytic capacitors)

Current	5 A
Temperature	40 °C
Time	247000 h
Additional text	120 V AC

## Life expectancy (electrolytic capacitors)

Current	5 A
Temperature	40 °C
Time	247000 h
Additional text	230 V AC

## Life expectancy (electrolytic capacitors)

Current	10 A
Temperature	25 °C
Time	288000 h
Additional text	120 V AC

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## Life expectancy (electrolytic capacitors)

Current	10 A
Temperature	25 °C
Time	345000 h
Additional text	230 V AC

## Life expectancy (electrolytic capacitors)

Current	10 A
Temperature	40 °C
Time	112000 h
Additional text	120 V AC

## Life expectancy (electrolytic capacitors)

Current	10 A
Temperature	40 °C
Time	138000 h
Additional text	230 V AC

## Dimensions

Width	50 mm
Height	130 mm
Depth	125 mm

## Installation dimensions

Installation distance right/left	5 mm / 5 mm
Installation distance top/bottom	50 mm / 50 mm

## Alternative assembly

Width	122 mm
Height	130 mm
Depth	53 mm

## Mounting

Mounting type	DIN rail mounting
Assembly note	alignable: $P_N \geq 50\%$ , 5 mm horizontally, 15 mm next to active components, 50 mm vertically alignable: $P_N < 50\%$ , 0 mm horizontally, 40 mm vertically top, 20 mm vertically bottom
Mounting position	horizontal DIN rail NS 35, EN 60715
With protective coating	yes

## Material specifications

Flammability rating according to UL 94 (housing / terminal blocks)	V0
Housing material	Metal
Hood version	Stainless steel X6Cr17
Side element version	Aluminum

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 5000 m (> 2000 m, observe derating)
Climatic class	3K22 (in accordance with EN 60721-3-3)
Max. permissible relative humidity (operation)	≤ 100 % (at 25 °C, non-condensing)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	5 Hz ... 100 Hz resonance search 2.3g, 90 min., resonance frequency 2.3g, 90 min. (according to DNV GL Class C)
Temp code	T4 (-40 ... +75 °C; > 60 °C, Derating: 2,5 %/K)

## Standards and regulations

Rail applications	EN 50121-3-2
	EN 50121-4
	EN 50121-5
	EN 50163
	IEC 62236-3-2
	IEC 62236-4
	IEC 62236-5
	EN 50155
	EN 45545-2 (HL3)
EN 61373 (Class 1B)	
HART FSK Physical Layer Test Specification Compliance	Output voltage $U_{Out}$ compliant
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard - Electrical safety	IEC 61010-2-201 (SELV)
Explosive atmosphere	IEC 60079-0
	IEC 60079-7
	IEC 60079-11
	IEC 60079-15
Standard – Safety extra-low voltage	IEC 61010-1 (SELV)
	IEC 61010-2-201 (PELV)
Standard - Safe isolation	IEC 61558-2-16
	IEC 61010-2-201
Standard - safety for equipment for measurement, control, and laboratory use	IEC 61010-1
Battery charging	DIN 41773-1
Noxious gas test	ANSI/ISA 71.04-2013 G3 Harsh Group A
Approval - requirement of the semiconductor industry with regard to mains voltage dips	SEMI F47-0706, EN 61000-4-11

### Fire protection in rail vehicles

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Standard designation	Fire protection in rail vehicles
Standards/specifications	EN 45545-2 (HL3)

## Approvals

CSA	CAN/CSA-C22.2 No. 61010-2-201
	CSA-C22.2 No. 107.1-16
Shipbuilding approval	DNV, BV, LR
SIQ	CB-Scheme (IEC 61010-1, IEC 61010-2-201)
UL approvals	UL Listed UL 508
	UL 121201 & CSA C22.2 No. 213-17 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)

## Conformity/Approvals

ATEX	SIQ 22 ATEX 245 X
	⊕ II 3 G Ex ec ic nC IIC T4 Gc
IECEX	IECEX SIQ 22.0001X
	Ex ec ic nC IIC T4 Gc
Functional Safety in accordance with IEC 61508	SIL 3

## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2
EMC requirements for power supply	IEC 61850-3 (G,H)
	EN 61000-6-5 (switching devices)

## Conducted noise emission

Standards/regulations	EN 55016
	EN 61000-6-3 (Class B)

## Noise emission

Standards/regulations	Additional basic standard EN 61000-6-5 (immunity in switching devices), IEC/EN 61850-3 (power supply)
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## Noise emission

Standards/regulations	EN 55016
	EN 61000-6-3 (Class B)

## DNV GL conducted noise emissions

DNV	Class B
Additional text	Bridge and deck area

## DNV GL noise radiation

DNV	Class B
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Additional text	Bridge and deck area
Harmonic currents	
Standards/regulations	EN 61000-3-2 EN 61000-3-2 (Class A)
Frequency range	0 kHz ... 2 kHz
Flicker	
Standards/regulations	EN 61000-3-3 EN 61000-3-3
Frequency range	0 kHz ... 2 kHz
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	8 kV (Test Level 4)
Discharge in air	15 kV (Test Level 4)
Comments	Criterion A
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz ... 1 GHz
Test field strength	20 V/m (Test Level 3)
Frequency range	1 GHz ... 6 GHz
Test field strength	10 V/m (Test Level 3)
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	4 kV (Test Level 4 - asymmetrical)
Output	4 kV (Test Level 4 - asymmetrical)
Signal	4 kV (Test Level 4 - asymmetrical)
Comments	Criterion A
Surge voltage load (surge)	
Standards/regulations	EN 61000-4-5
Surge voltage load (surge)	
Input	typ. 3 kV (Test Level 4 - symmetrical) typ. 6 kV (Test Level 4 - asymmetrical)
Output	1 kV (Test Level 3 - symmetrical) 2 kV (Test Level 3 - asymmetrical)
Signal	4 kV (Test Level 4 - asymmetrical)

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Comments	Criterion A
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## Conducted interference

Standards/regulations	EN 61000-4-6
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## Conducted interference

Input/output/signal	asymmetrical
Frequency range	0.15 MHz ... 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)

## Power frequency magnetic field

Standards/regulations	EN 61000-4-8
Frequency	16.7 Hz
	50 Hz
	60 Hz
Test field strength	100 A/m
Additional text	60 s
Comments	Criterion A
Frequency	50 Hz
	60 Hz
Frequency range	50 Hz ... 60 Hz
Test field strength	1 kA/m
Additional text	3 s
Frequency	0 Hz
Test field strength	300 A/m
Additional text	DC, 60 s

## Voltage dips

Standards/regulations	EN 61000-4-11
Voltage	230 V AC
Frequency	50 Hz
Voltage dip	70 %
Number of periods	0.5 / 1 / 25 / 30 periods
Additional text	Test Level 2
Comments	Criterion A: 0.5 / 1 / 25 / 30 periods
Voltage dip	40 %
Number of periods	5 / 10 / 50 periods
Additional text	Test Level 2
Comments	Criterion A
Voltage dip	0 %
Number of periods	0,5 / 1 / 5 / 50 / 250 periods
Additional text	Test Level 2
Comments	Criterion A: 0.5 / 1 period Criterion B: 5 / 50 / 250 periods

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## Pulse-shape magnetic field

Standards/regulations	EN 61000-4-9
Test field strength	1000 A/m
Comments	Criterion A

## Attenuated sinusoidal oscillations (ring wave)

Standards/regulations	EN 61000-4-12
Input	2 kV (Test Level 4 - symmetrical) 4 kV (Test Level 4 - asymmetrical)
Comments	Criterion A

## Asymmetrical conducted disturbance variables

Standards/regulations	EN 61000-4-16
Test level 1	15 Hz 150 Hz (Test Level 4)
Voltage	30 V 3 V
Test level 2	150 Hz 1.5 kHz (Test Level 4)
Voltage	3 V
Test level 3	1.5 kHz 15 kHz (Test Level 4)
Voltage	3 V 30 V
Test level 4	15 kHz 150 kHz (Test Level 4)
Voltage	30 V
Test level 5	16.7 Hz 50 Hz 60 Hz (Test Level 4)
Voltage	30 V (10 s)
Test level 6	150 Hz 180 Hz (Test Level 4)
Voltage	30 V (10 s)
Test level 7	16.7 Hz 50 Hz 60 Hz (Test Level 4)
Voltage	300 V (1 s)
Comments	Criterion A

## Attenuated oscillating wave

Standards/regulations	EN 61000-4-18
Input, output (test level 1)	100 kHz 1 MHz (Test Level 3 - symmetrical)
Voltage	1 kV
Input, output (test level 2)	10 MHz (Test Level 3 - asymmetrical)
Voltage	2 kV
Input, output (test level 3)	100 kHz 1 MHz (Test Level 3 - asymmetrical)
Voltage	2.5 kV
Signals (test level 1)	100 kHz 1 MHz (Test Level 3 - symmetrical)
Voltage	1 kV
Signals (test level 2)	100 kHz 1 MHz (Test Level 3 - asymmetrical)
Voltage	2.5 kV
Comments	Criterion A

## Attenuated oscillating magnetic field

Standards/regulations	EN 61000-4-10
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Test field strength	100 A/m
Test level 1	100 kHz
Test field strength	100 A/m
Test level 2	1 MHz
Comments	Criterion A

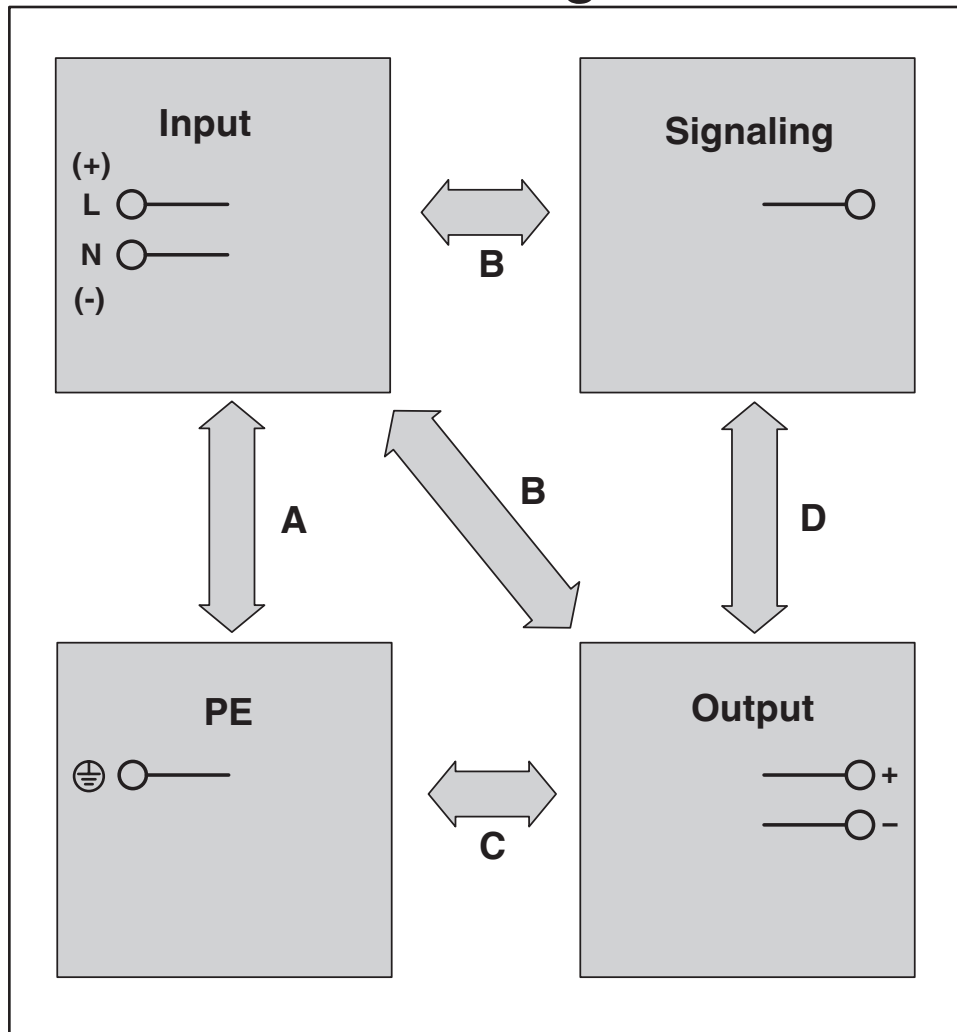
## Criteria

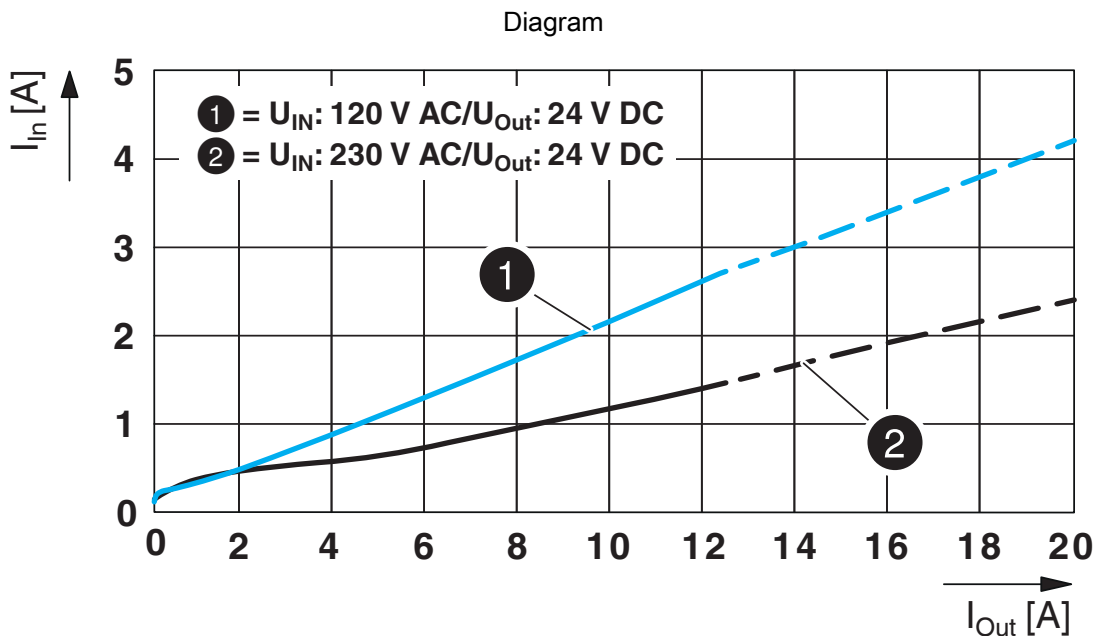
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
Criterion C	Temporary adverse effects on the operating behavior, which the device corrects automatically or which can be restored by actuating the operating elements.

Drawings

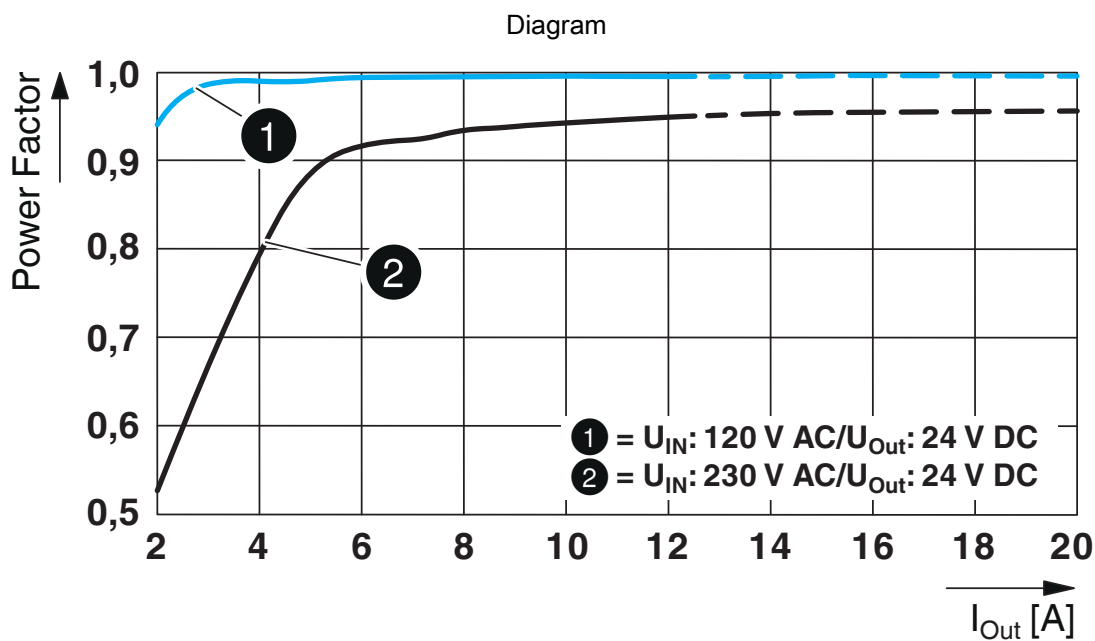
Schematic diagram

# Housing





Input current/output current



Power factor

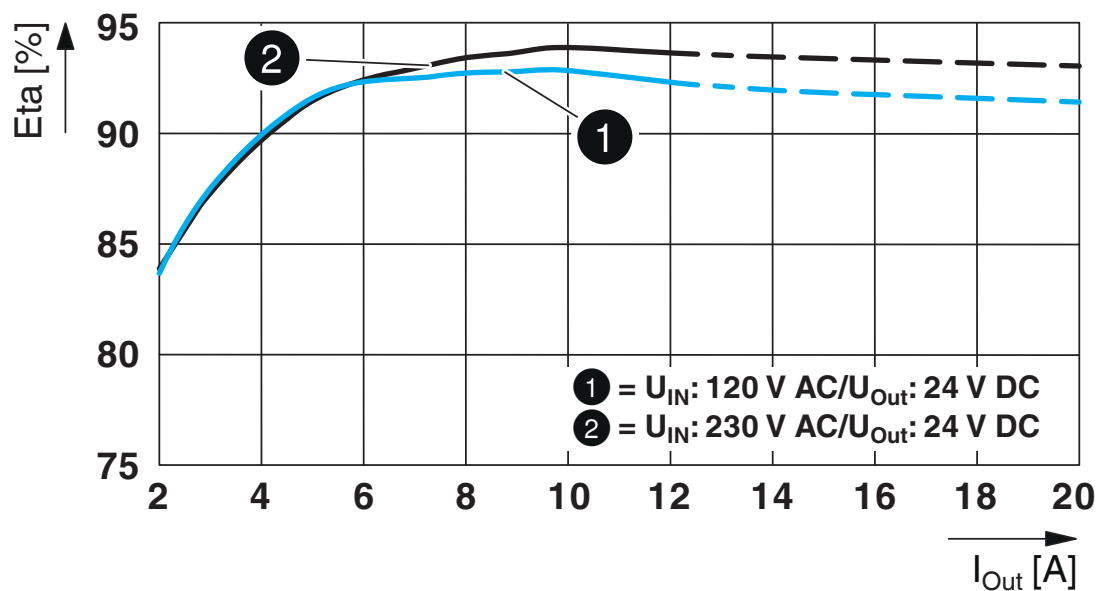
# QUINT4-PS/1AC/24DC/10/+ - Power supply



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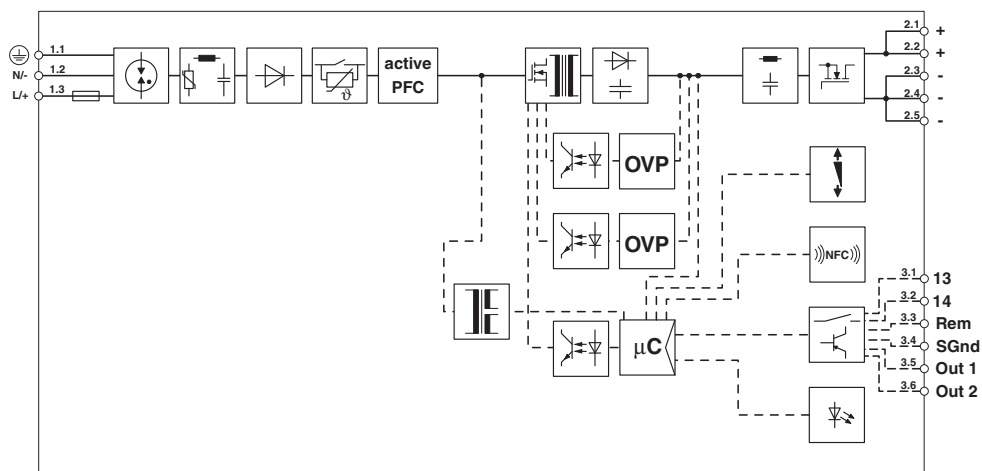
<https://www.phoenixcontact.com/us/products/2904616>

Diagram



Efficiency

Block diagram



Block diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2904616>

### DNV

Approval ID: TAA00001YD



### cULus Listed

Approval ID: FILE E 123528



### Type approved

Approval ID: SI-SIQ BG 005/108



### LR

Approval ID: LR22472797TA



### cCSAus

Approval ID: 80128434



### BV

Approval ID: 44621/B0 BV

### BIS Licence Document

Approval ID: R-41268801

### SEMI F47

Approval ID: SEMI F47

### CoC / Compliance Statement

Approval ID: 24PP124-01\_0



### BV

Approval ID: 44621/B0 BV



### LR

Approval ID: LR22472797TA

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## Type approved

Approval ID: SI-SIQ BG 005/108



## cULus Listed

Approval ID: FILE E 123528

## SEMI F47

Approval ID: SEMI F47

## DNV

Approval ID: TAA00001YD



## cCSAus

Approval ID: 80128434

## CoC / Compliance Statement

Approval ID: 24PP124-01\_0

## BIS Licence Document

Approval ID: R-41268801

## ABS

Approval ID: 26-0442641-PDA

## ABS

Approval ID: 26-0442641-PDA



## IECEX

Approval ID: IECEX SIQ 22.0001X



## ATEX

Approval ID: SIQ 22 ATEX 245 X



## UKCA-EX

Approval ID: EXV22UKEX1334X

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**cULus Listed**

Approval ID: FILE E 199827



**CCC**

Approval ID: 2022122303116030



**cULus Listed**

Approval ID: FILE E 199827



**CCC**

Approval ID: 2022122303116030



**IECEx**

Approval ID: IECEx SIQ 22.0001X

**INMETRO**

Approval ID: DNV 24.0252 X



**ATEX**

Approval ID: SIQ 22 ATEX 245 X



**UKCA-EX**

Approval ID: EXV22UKEX1334X

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## Classifications

### ECLASS

ECLASS-13.0	27040701
ECLASS-15.0	27040701

### ETIM

ETIM 10.0	EC002540
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	13036d76-0847-4a71-85b7-1229aab84221

### EF3.1 Climate Change

CO2e kg	22.481 kg CO2e
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)