

# QUINT4-PS/3AC/24DC/40 - Power supply



2904623

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Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, and NFC interface, input: 3-phase, output: 24 V DC/40 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

- Most powerful output side: easy system expansion, reliable heavy load startup and miniature circuit breaker tripping
- Most robust input side: high noise immunity, thanks to integrated gas-filled surge arrester (up to 6 kV) and  $\geq 20$  ms mains failure buffer time
- Most comprehensive signaling: preventive function monitoring reports critical operating states before errors occur
- Available pre-configured: from a batch quantity of just 1

## Commercial data

Item number	2904623
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM10
Product key	CMPI33
GTIN	4055626356105
Weight per piece (including packing)	2,801 g
Weight per piece (excluding packing)	2,422 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
Nominal input voltage range	3x 400 V AC ... 500 V AC
	2x 400 V AC ... 500 V AC
Input voltage range	3x 400 V AC ... 500 V AC -20 % ... +10 %
	2x 400 V AC ... 500 V AC -10 % ... +10 %
Typical national grid voltage	400 V AC
	480 V AC
Voltage type of supply voltage	AC
Inrush current	typ. 1.5 A (at 25 °C)
Inrush current integral ( $I^2t$ )	< 0.06 A <sup>2</sup> s
Inrush current limitation	1.5 A (after 1 ms)
AC frequency range	50 Hz ... 60 Hz -10 % ... +10 %
Frequency range ( $f_N$ )	50 Hz ... 60 Hz -10 % ... +10 %
Mains buffering time	typ. 28 ms (3x 400 V AC)
	typ. 28 ms (3x 480 V AC)
Current consumption	3x 1.8 A (400 V AC)
	3x 1.5 A (480 V AC)
	2x 3 A (400 V AC)
	2x 2.5 A (480 V AC)
	3x 1.5 A (500 V AC)
	2x 2.4 A (500 V AC)
Nominal power consumption	1217 VA
Protective circuit	Transient surge protection; Varistor, gas-filled surge arrester
Power factor (cos phi)	0.95
Switch-on time	< 1 s
Typical response time	300 ms (from SLEEP MODE)
Recommended breaker for input protection	3x 4 A ... 20 A (Characteristic B, C, D, K or comparable)
Recommended fuse for input protection	$\geq$ 300 V AC
Discharge current to PE	< 3.5 mA
	1 mA (550 V AC, 60 Hz)

### DC operation

Nominal input voltage range	$\pm$ 260 V DC ... 300 V DC
Input voltage range	$\pm$ 260 V DC ... 300 V DC -13 % ... +30 %
	520 V DC ... 600 V DC -13 % ... +30 % (mid-point earthed)
Voltage type of supply voltage	DC

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Current consumption	2.2 A ( $\pm$ 260 V DC)
	1.9 A ( $\pm$ 300 V DC)
Nominal power consumption	1217 VA
Recommended breaker for input protection	1x 6 A (10 x 38 mm, 30 kA L/R = 2 ms)
Recommended fuse for input protection	$\geq$ 1000 V DC

## Output data

Efficiency	typ. 95.7 % (400 V AC)
	typ. 95.7 % (480 V AC)
Nominal output voltage	24 V DC
Setting range of the output voltage ( $U_{Set}$ )	24 V DC ... 29.5 V DC (constant capacity)
Nominal output current ( $I_N$ )	40 A
Static Boost ( $I_{Stat.Boost}$ )	45 A
Dynamic Boost ( $I_{Dyn.Boost}$ )	60 A (5 s)
Selective Fuse Breaking ( $I_{SFB}$ )	215 A (15 ms)
Magnetic circuit breaker tripping	A1...A40 / B2...B25 / C1...C13 / Z1...Z16
Derating	> 60 °C ... 70 °C (2.5 %/K)
Feedback voltage resistance	$\leq$ 35 V DC
Protection against overvoltage at the output (OVP)	$\leq$ 32 V DC
Control deviation	< 0.5 % (Static load change 10 % ... 90 %)
	< 3 % (Dynamic load change 10 % ... 90 %, (10 Hz))
	< 0.25 % (change in input voltage $\pm$ 10 %)
Residual ripple	< 50 mV <sub>PP</sub> (with nominal values)
Short-circuit-proof	yes
No-load proof	yes
Output power	960 W
	1080 W
	1440 W
Maximum no-load power dissipation	< 5 W (400 V AC)
	< 5 W (480 V AC)
Power loss nominal load max.	< 45 W (400 V AC)
	< 45 W (480 V AC)
Power dissipation SLEEP MODE	< 2 W (400 V AC)
	< 2 W (480 V AC)
Crest factor	typ. 1.6 (400 V AC)
	typ. 1.9 (480 V AC)
Rise time	< 1 s ( $U_{Out}$ = 10 % ... 90 %)
Connection in parallel	yes, for redundancy and increased capacity
Connection in series	yes
Fuse protection (secondary side)	electronic
	thermal-magnetic
	thermal

Signal

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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.	6 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	4 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.	4 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.	4 mm <sup>2</sup>
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	10
Stripping length	8 mm
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

### Output

Connection method	Screw connection
Conductor cross-section, rigid min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid max.	16 mm <sup>2</sup>
Conductor cross-section flexible min.	0.5 mm <sup>2</sup>
Conductor cross-section flexible max.	16 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	16 mm <sup>2</sup>

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Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	16 mm <sup>2</sup>
Conductor cross-section AWG min.	20
Conductor cross-section AWG max.	6
Stripping length	10 mm
Tightening torque, min	1.2 Nm
Tightening torque max	1.5 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

### 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
	Phase monitoring
P <sub>Out</sub>	> 100 % (LED lights up yellow, output power > 960 W)
	> 75 % (LED lights up green, output power > 720 W)
	> 50 % (LED lights up green, output power > 480 W)
U <sub>Out</sub>	> 0.9 × U <sub>Set</sub> (LED lights up green)
	< 0.9 × U <sub>Set</sub> (LED flashes green)

## Electrical properties

Number of phases	3
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Insulation voltage input/output	4 kV AC (type test)
	2.4 kV AC (routine test)
Insulation voltage output / PE	0.5 kV DC (type test)
	0.5 kV DC (routine test)
Insulation voltage input / PE	3.5 kV AC (type test)
	2.4 kV AC (routine test)
Switching frequency	32.00 kHz ... 100.00 kHz (Auxiliary converter stage)
	55.00 kHz ... 300.00 kHz (Main converter stage)
	25.00 kHz ... 500.00 kHz (PFC stage)

## Product properties

Product type	Power supply
Product family	QUINT POWER
MTBF (IEC 61709, SN 29500)	> 849000 h (25 °C)
	> 517000 h (40 °C)
	> 236000 h (60 °C)
Environmental protection directive	RoHS Directive 2011/65/EU
	WEEE
	Reach

## Insulation characteristics

Protection class	I
Overvoltage category (EN 61010-1)	II ( $\leq 5000$ m)
Overvoltage category (EN 62477-1)	III ( $\leq 2000$ m)
Overvoltage category (EN 61558-2-16)	II ( $\leq 4000$ m)
Degree of pollution	2

## Life expectancy (electrolytic capacitors)

Current	20 A
Temperature	40 °C
Time	394000 h
Additional text	400 V AC

## Life expectancy (electrolytic capacitors)

Current	20 A
Temperature	40 °C
Time	367000 h
Additional text	480 V AC

## Life expectancy (electrolytic capacitors)

Current	40 A
Temperature	25 °C
Time	394000 h
Additional text	400 V AC

## Life expectancy (electrolytic capacitors)

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Current	40 A
Temperature	25 °C
Time	367000 h
Additional text	480 V AC

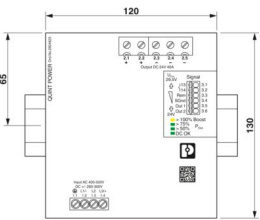
## Life expectancy (electrolytic capacitors)

Current	40 A
Temperature	40 °C
Time	139000 h
Additional text	400 V AC

## Life expectancy (electrolytic capacitors)

Current	40 A
Temperature	40 °C
Time	130000 h
Additional text	480 V AC

## Dimensions

Dimensional drawing	
Width	120 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

## Mounting

Mounting type	DIN rail mounting
Mounting position	horizontal DIN rail NS 35, EN 60715
With protective coating	no

## 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

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## Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (start-up type tested)	-40 °C
Maximum altitude	≤ 5000 m (> 2000 m, observe derating)
Climatic class	3K22 (in accordance with EN 60721-3-3)
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Shock	11 ms, 15 g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	5 Hz ... 100 Hz resonance search 0.7g, 90 min., resonance frequency 0.7g, 90 min. (in accordance with DNV GL Class A) 5 Hz ... 100 Hz resonance search 2.3g, 90 min., resonance frequency 2.3g, 90 min. (according to DNV GL Class C) mounted with UWA 130 - 2901664
Temp code	T4 (-25 ... +70 °C; > 60 °C, Derating: 2,5 %/K)

## Standards and regulations

Rail applications	EN 50121-3-2
	EN 50121-5
	IEC 62236-3-2
	IEC 62236-5
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)
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
Standard - Safety of transformers	EN 61558-2-16
Battery charging	DIN 41773-1
Approval - requirement of the semiconductor industry with regard to mains voltage dips	SEMI F47-0706, EN 61000-4-11

## Approvals

CSA	CAN/CSA-C22.2 No. 60950-1-07
	CSA-C22.2 No. 107.1-01
Shipbuilding approval	DNV, BV, ABS, LR, NK
SIQ	BG (type approved)
	CB-Scheme (IEC 61010-1, IEC 61010-2-201, IEC 60950-1)
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950-1
	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)

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## 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)
<b>Conducted noise emission</b>	
Standards/regulations	EN 55016
	EN 61000-6-3 (Class B)
<b>Noise emission</b>	
Standards/regulations	Additional basic standard EN 61000-6-5 (immunity in switching devices), IEC/EN 61850-3 (power supply)
<b>Noise emission</b>	
Standards/regulations	EN 55016
	EN 61000-6-3 (Class B)
<b>DNV GL conducted noise emissions</b>	
DNV	Class A
Additional text	Area power distribution
<b>DNV GL noise radiation</b>	
DNV	Class B
Additional text	Bridge and deck area
<b>Harmonic currents</b>	
Standards/regulations	EN 61000-3-2
	EN 61000-3-2 (Class A)
Frequency range	0 kHz ... 2 kHz
<b>Flicker</b>	
Standards/regulations	EN 61000-3-3
	EN 61000-3-3
Frequency range	0 kHz ... 2 kHz
<b>Electrostatic discharge</b>	
Standards/regulations	EN 61000-4-2
<b>Electrostatic discharge</b>	
Contact discharge	8 kV (Test Level 4)
Discharge in air	15 kV (Test Level 4)
Comments	Criterion A

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## Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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## 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
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## 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
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## Surge voltage load (surge)

Input	2 kV (Test Level 3 - symmetrical)
	6 kV (Test Level 4 - asymmetrical)
Output	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	4 kV (Test Level 2 - asymmetrical)
Comments	Criterion A

## 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

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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	400 V AC
Frequency	50 Hz
Voltage dip	70 %
Number of periods	0.5 / 1 / 25 periods
Additional text	Test Level 2
Comments	Criterion A: 0.5 / 1 period Criterion B: 25 periods
Voltage dip	40 %
Number of periods	5 / 10 / 50 periods
Additional text	Test Level 2
Comments	Criterion B
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

## 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)

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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 150 Hz 180 Hz (Test Level 4)
Voltage	30 V (10 s)
Test level 6	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
Voltage	1 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
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.

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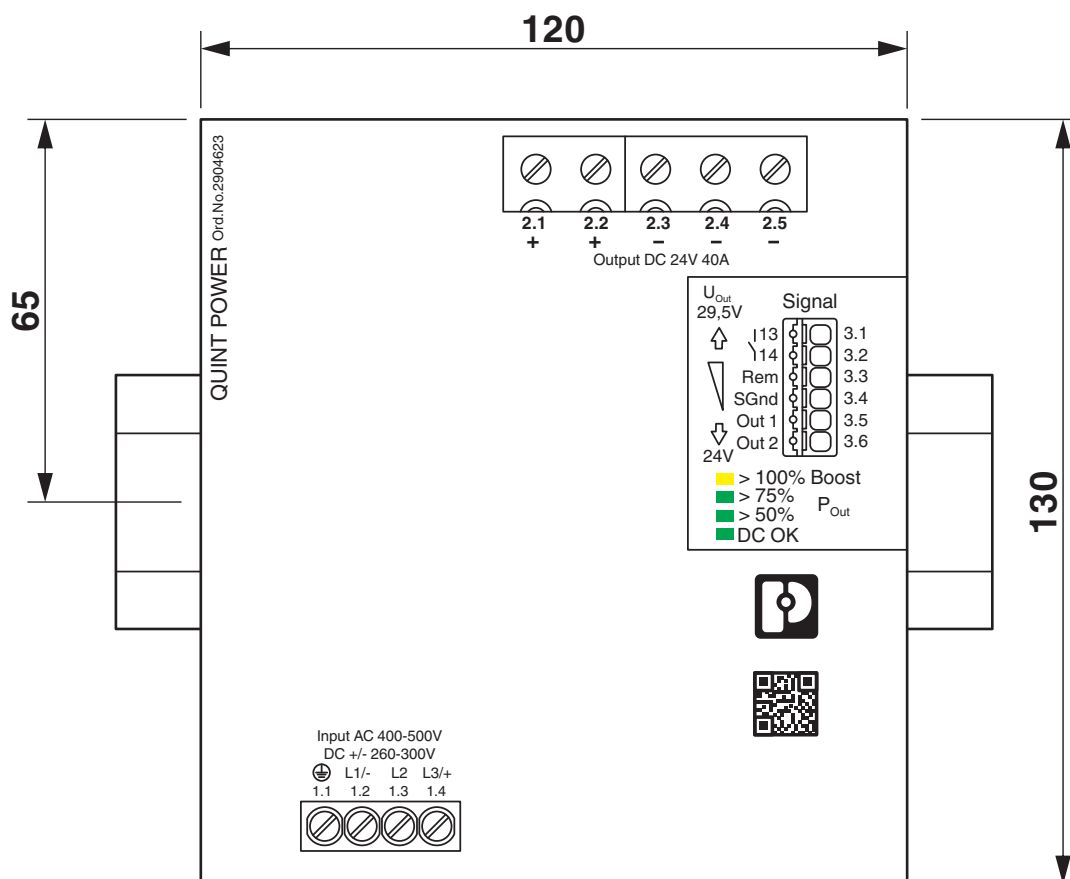


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## Drawings

Dimensional drawing



Dimensions, front view (in mm)

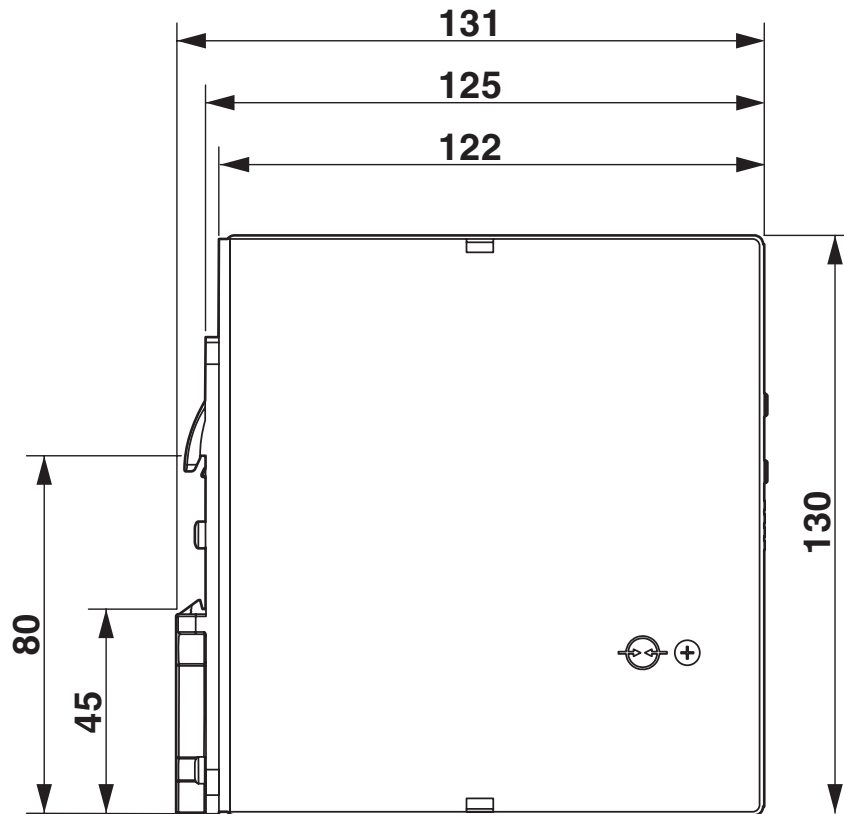
# QUINT4-PS/3AC/24DC/40 - Power supply

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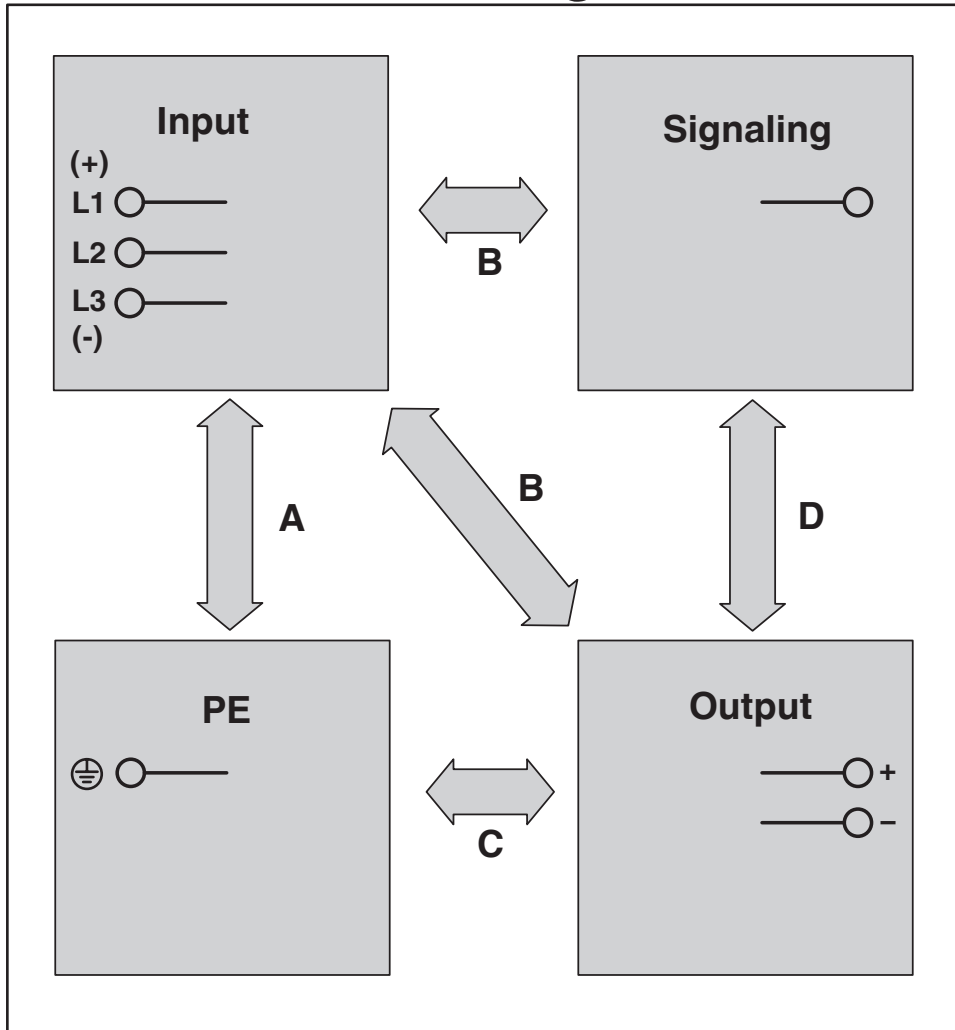
Dimensional drawing



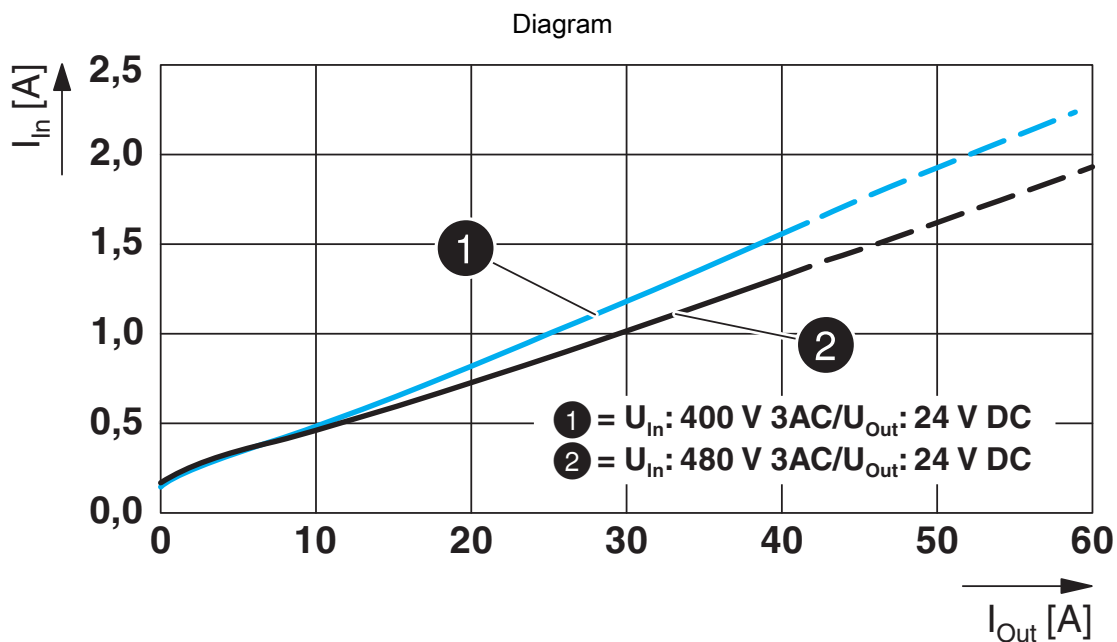
Dimensions, side view (in mm)

Schematic diagram

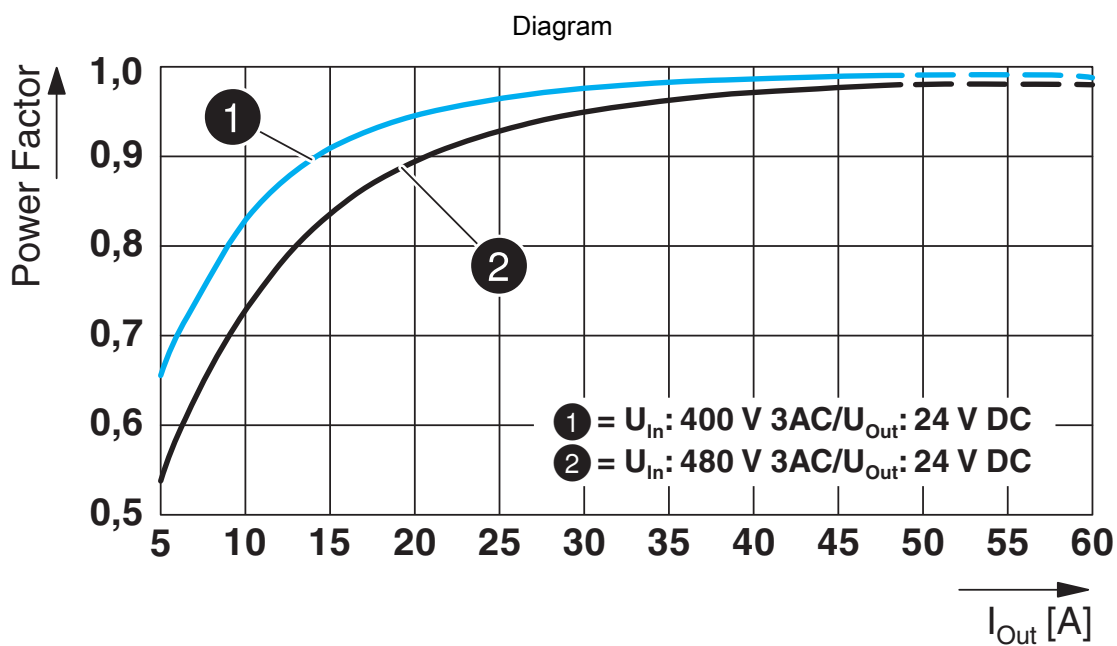
# Housing



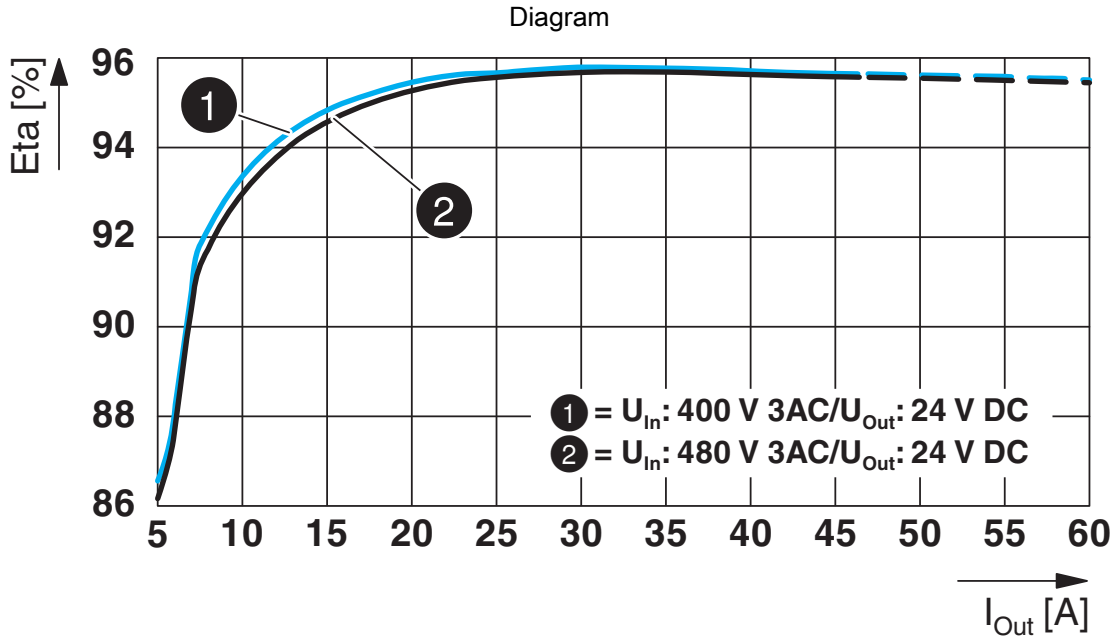
Test sections, insulation voltage



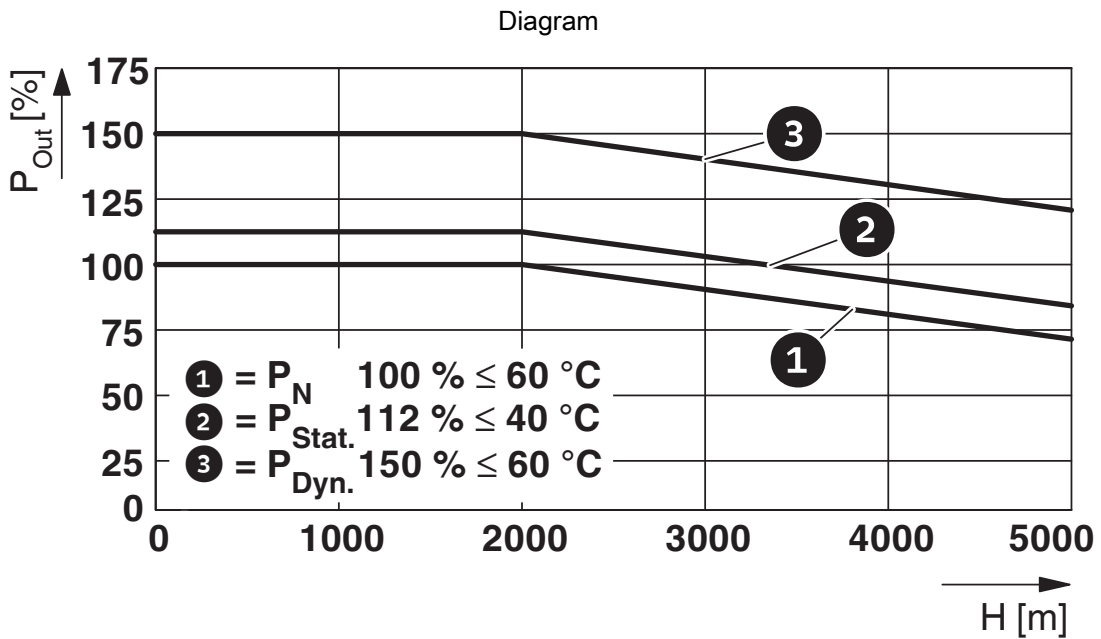
Input current/output current



Power factor



Efficiency



Altitude-dependent derating

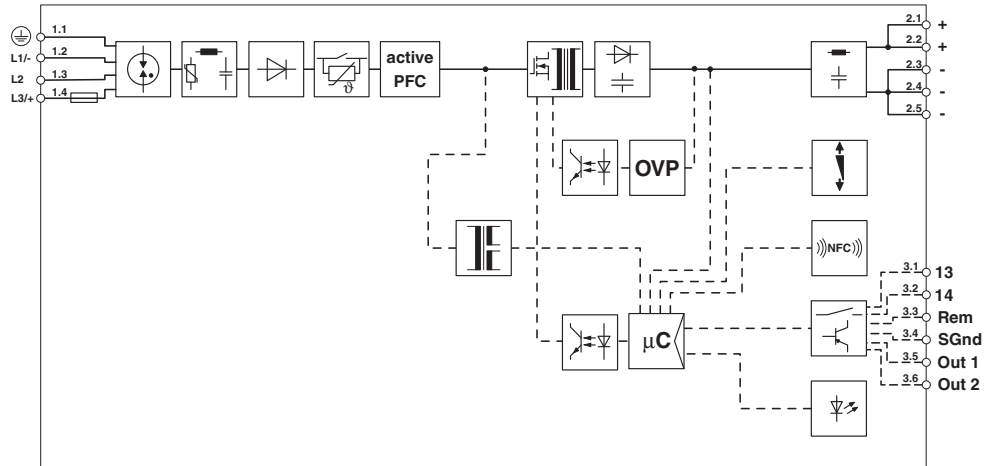
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Block diagram



Block diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2904623>



**cUL Recognized**  
Approval ID: E211944



**UL Recognized**  
Approval ID: E211944



**IECEE CB Scheme**  
Approval ID: SI-7230



**EAC**  
Approval ID: RU S-DE.BL08.W.00764



**LR**  
Approval ID: LR22472797TA



**NK**  
Approval ID: TA21182M



**IECEE CB Scheme**  
Approval ID: SI-7268

**ABS**

Approval ID: 26-0442641-PDA



**EAC**  
Approval ID: RU S-DE.BL08.W.00764

**DNV**

Approval ID: TAA00001YD



**BV**  
Approval ID: 44621/B1 BV

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**cCSAus**

Approval ID: 800097463

**SEMI F47**

Approval ID: SEMI F47



**cULus Listed**

Approval ID: 20190619-E123528



**cULus Listed**

Approval ID: E199827-20191015

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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	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	95cb6219-1f6e-46d0-9ebd-ed4377268ff2

### EF3.1 Climate Change

CO2e kg	54.654 kg CO2e
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