

# POWER SUPPLY



Quint Power

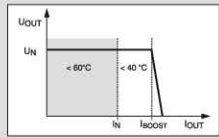
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## QUINT POWER

Output (DC):	24 V / 5 A	24 V / 10 A	24 V / 20 A
Input:			
Single-phase <b>AC:</b> 85 to 264 V 45-65 Hz <b>DC:</b> 90 to 350 V	Up to 40°C 7.5A	Up to 40°C 15A	Up to 40°C 26A
Type Order No.	<b>QUINT-PS-100-240AC/24DC/5</b> 29 38 58 1	<b>QUINT-PS-100-240AC/24DC/10</b> 29 38 60 4	<b>QUINT-PS-100-240AC/24DC/20</b> 29 38 62 0

Output (DC):	24 V / 20 A
Input:	
Three-phase <b>AC:</b> 3x320 to 575 V 45-65 Hz <b>DC:</b> 450 to 800 V	Up to 40°C 27A
Type Order No.	<b>QUINT-PS-3x400-500AC/24DC/20</b> 29 38 72 7

### QUINT POWER



**U/I output characteristic curve with POWER BOOST**  
The integrated power reserve of up to 50% ensures reliable starting even with full load.

#### Connection data:

2.5 to 10 A	
Input	solid/stranded (mm <sup>2</sup> )
Output	0.2-2.5 / 0.2-2.5
Signal	0.2-2.5 / 0.2-2.5

20 to 40 A	
Input	solid/stranded (mm <sup>2</sup> )
Output	0.2-6 / 0.2-4
Signal	0.5-16 / 0.5-10



#### Input data

#### Output data

#### Signalling

#### General data

#### Climatic data

#### Certification/standards



Nominal output voltage  
Adjustable output voltage  
Can be connected in parallel  
Efficiency  
Residual ripple

DC OK (active:  $U_{out} > 0.9 \times U_N$  hi-signal) (max. 44 mA)  
DC OK (floating:  $U_{out} > 0.9 \times U_N$  = contact closed)

LED ( $U_{out} < 0.9 \times U_N$  = LED flashes)

Installation position  
Assembly instructions

Connection system

Degree of protection / class of protection  
MTBF ( Mean Time Between Failure)  
Type of housing

Ambient temperature (operation/storage)  
Humidity

Insulation voltage input/output  
Electrical safety, safety transformer  
Equipment for use in electrical power installations  
Safe isolation  
UL approvals (AC input voltage / up to + 60 °C)  
Shipbuilding  
Limitation of mains and harmonic currents  
Electromagnetic compatibility

24V DC  $\pm 1\%$   
22.5-28.5 V  
for redundancy and increasing performance  
> 90%  
<100 mV<sub>pp</sub>

+24V signal  
max.30W (ohmic load) with max. 60V AC/DC or max. 1A

LED green

on horizontal NS 35 DIN rail in acc. with EN 50 022  
Spacing - vertical with spacing  $\geq 5$  cm  
- horizontal with zero spacing  
screw connection (devices up to incl. 10 A, COMBICON plug connection)

IP 20 / class I, with PE connection  
>500,000 h in acc. with IEC 1709 (SN 29 500)  
AluNox (AlMg), enclosed

-25 °C to +70 °C (> +60 °C derating) / -40 °C to +85 °C  
up to 95 % at 25 °C no condensation (QUINT EX: up to 100%)

2 kV (routine test) / 4 kV (type test)  
EN 60 950 /VDE 0805 (SELV), EN 61 558-2-17  
EN 50 178 /VDE 0160 (PELV)  
DIN VDE 0100-410 / DIN VDE 0106-1010  
UL/C-UL Listed UL 508 UL/C-UL Recognized UL 60 950  
GI (QUINT 24V)  
in acc. with EN 61 000-3-2  
CE compliance with EMC guideline 89/336/EEC

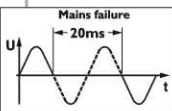
#### Worldwide use



... is made possible with a consistent wide-range input design.

#### High operational reliability

... is also reliably guaranteed in complex global networks. Generously dimensioned capacitors guarantee a mains buffering of more than 20 ms under full load.



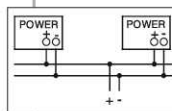
#### International approvals

... such as CB scheme, GL, GS, CE, UL 60 950 for information technology equipment and UL 508 for industrial regulating devices pave the way for worldwide use.



#### Parallel connection possible

... for economical system expansion and increased system availability with redundant power supply systems.



# POWER SUPPLY

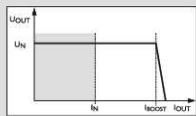
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MINI Power

## MINI POWER

Output (DC):	24 V / 2 A	24 V / 4 A
Input:		
Single-phase AC: 85 to 264 V 45-65 Hz DC: 90 to 350 V	Up to 40°C 2,9A	Up to 40°C 5A
Type Order No.	MINI-PS-100-240AC/24DC/2 29 38 73 0	MINI-PS-100-240AC/24DC/4 29 38 83 7

### MINI POWER



**U/I output characteristic curve with POWER BOOST**  
The integrated power reserve of up to 100% make this device top of its class.



<b>Input data</b>	Mains buffering (typ.)	> 20 ms
<b>Output data</b>	Can be connected in parallel Efficiency Residual ripple	for redundancy and increasing performance depending on the type >70%...88% <100 mV <sub>pp</sub>
<b>Signalling</b>	DC OK (DC OK active $\hat{=}$ hi-signal) LED (DC OK $\hat{=}$ LED lights up permanently)	+24V signal / max. 20 mA (MINI 24V) LED green
<b>General data</b>	Installation position Assembly instructions	on horizontal NS 35 DIN rail in acc. with EN 50 022 spacing: – vertical with spacing $\geq$ 5 cm – horizontal with zero spacing COMBICON screw/plug connection (0.2-2.5mm <sup>2</sup> ) IP 20 / class 2 ( in closed control cabinet ) > 500,000 h in acc. with IEC 1709 (SN 29 500) polyamide PA, color: green
<b>Climatic data</b>	Ambient temperature (operation/storage) Humidity	– 25 °C to + 70 °C / – 40 °C to +85 °C up to 95 % at 25 °C, no condensation
<b>Certification/standards</b>	Insulation voltage input/output Electrical safety / safety transformer Equipment for use in electrical power installations Safe isolation UL approvals Limitation of mains and harmonic currents Electromagnetic compatibility Limitation of output power	2 kV (routine test) 4 kV (type test) EN 60 950/VDE 0805 (SELV) / EN 61 558-2-17 EN 50 178 / VDE 0160 (PELV) DIN VDE 0100-410 / DIN VDE 0106-1010 UL/C-UL Listed UL 508, UL/C-UL Recognized UL 60 950 in acc. with EN 61 000-3-2 CE compliance with EMC guideline 89/336/EEC NEC Class 2 (MINI 24V/4 A)

### QUINT POWER



**Clear function monitoring**  
... with professional signalling.

**High system availability**  
... even when a phase fails.

**Extremely robust**  
... in all areas of application. This is underscored by the approval from German Lloyd.

**Variable output voltage**  
... due to the adjustable output to compensate for voltage drops on long cables and for charging batteries.

**Reliable starting**  
... of complex loads using the power reserve of up to 50%: **POWER BOOST.**

### MINI POWER

**Extra slim**  
... with assembled widths of 22.5mm (7/8"), 45mm (1 3/4") and 67.5mm (2 5/8").

**Easy to assemble**  
... with coded COMBICON connectors.

**Variable output voltage**  
... due to an adjustable output.

**Reliable starting**  
... of complex loads using the power reserve of up to 100%: **the POWER BOOST.**

