QUINT-PS/1AC/24DC/10 2866763

01 / Identity and functional architecture

DIN Rail Power Supply

Phoenix Contact QUINT-PS/1AC/24DC/10 2866763 is a single-phase DIN-rail power supply with a 24 V DC, 10 A output, POWER BOOST reserve and SFB selective fuse-breaking capability.



Power supply family	QUINT POWER
Nominal output	24 V DC / 10 A
Static reserve	15 A POWER BOOST under specified conditions
Dynamic reserve	60 A SFB pulse for 12 ms

Scope of this reference

Nominal, static POWER BOOST and short-duration SFB ratings are different operating conditions. Apply the specified voltage, temperature, input and protective-device requirements to the complete installation.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

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02 / Electrical and system characteristics

Manufacturer	Phoenix Contact
Product series	QUINT POWER
Order number	2866763
AC input range	85 to 264 V AC
AC input frequency	45 to 65 Hz
DC input range	110 to 350 V DC; UL 508 limit 300 V DC
Nominal output	24 V DC, ±1%; 10 A
Nominal output power	240 W

Engineering interpretation

Match AC or DC input conditions, protective grounding and upstream protection. Keep input isolation separate from output DC OK indication.

The specified DC input range is 110 to 350 V DC, with a 300 V DC limit for the UL 508 condition. Follow the applicable DC input and protection requirements.

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03 / Configuration and installation relationship

Output adjustment	18 to 29.5 V DC; power limitation above 24 V
POWER BOOST	15 A permanent at 24 V, -25 to 40 °C
SFB current	60 A for 12 ms
Residual ripple	Less than 50 mV peak-to-peak
Operating temperature	-25 to 70 °C; derating above 60 °C
Derating at 60 to 70 °C	2.5% per K
Degree of protection	IP20
Mounting	Horizontal NS 35 DIN rail

Separate reserve ratings

Do not describe the 60 A, 12 ms SFB pulse as continuous output. The 15 A static reserve also has specific voltage and temperature conditions.

Maintain thermal clearance

Preserve the manufacturer mounting clearances and derate the load above 60 °C. Confirm cabinet temperature at the actual installation position.

Verify protection and signals

Coordinate input protection, branch breakers and DC OK/load signals with the installation. Confirm polarity and load behavior before operational release.

Functional acceptance

Measure output voltage, verify polarity and load response, and confirm DC OK and branch-protection behavior using the approved procedure.

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04 / Engineering questions and decisions

What does POWER BOOST mean for QUINT-PS/1AC/24DC/10 2866763?

It provides a 15 A static reserve at 24 V DC, continuously within -25 to 40 °C. Preserve the stated input and environmental conditions.

What is the SFB output capability of QUINT-PS/1AC/24DC/10 2866763?

Selective Fuse Breaking provides 60 A for 12 ms to support coordinated protective-device tripping. It is a short pulse, not a continuous load rating.

What ripple limit applies to QUINT-PS/1AC/24DC/10 2866763?

Residual ripple is below 50 mV peak-to-peak at nominal values. Verify the load and measurement conditions when evaluating a supply.

What temperature derating is required for QUINT-PS/1AC/24DC/10 2866763?

The operating range is -25 to 70 °C. Between 60 and 70 °C, reduce the permissible load by 2.5% per kelvin.

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05 / Technical basis and related portfolio

Technical source

Phoenix Contact QUINT-PS/1AC/24DC/10, order 2866763, product technical data (29 October 2026).

Product applicability

Nominal, static POWER BOOST and short-duration SFB ratings are different operating conditions. Apply the specified voltage, temperature, input and protective-device requirements to the complete installation.

Lifecycle and service

The current manufacturing and service-support phase for order 2866763 has not been confirmed. Phoenix Contact recommends QUINT4-PS/1AC/24DC/10, order 2904601, for new projects; this is not a declaration of direct replacement compatibility.

Related portfolio references

Phoenix Contact QUINT-PS-100-240AC/24DC/10 2938604

Phoenix Contact REL-IR-BL/L-24DC/4×21 1032527

Phoenix Contact QUINT4-PS/1AC/12DC/15

These links are navigation references, not confirmed replacements or compatible accessories.

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