

# DC/DC converter, protective coating - QUINT-PS/60-72DC/24DC/10/CO - 2905011

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Primary-switched QUINT DC/DC converter with wide range input for DIN rail mounting with SFB (Selective Fuse Breaking) technology, input: 60-72 V DC, output 24 V DC / 10 A

## Product Description

QUINT DC/DC converter with maximum functionality.


DC/DC converters alter the voltage level, regenerate the voltage at the end of long cables or enable the creation of independent supply systems by means of electrical isolation. QUINT DC/DC converters magnetically and therefore quickly trip circuit breakers with six times the nominal current, for selective and therefore cost-effective system protection. In addition, the high system availability is ensured by preventive function monitoring which reports critical operating states before errors can occur.

## Your advantages

- ✓ Reliable starting of difficult loads, thanks to the static POWER BOOST power reserve with up to 125% nominal current permanently
- ✓ Preventive function monitoring indicates critical operating states before errors occur
- ✓ Constant voltage: output voltage regenerated even at the end of long cables
- ✓ Support conversion to various voltage levels
- ✓ Electrical isolation: for setting up independent supply systems
- ✓ Optimum protection with dip coating for 100 % humidity



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 908320
GTIN	4046356908320
Weight per Piece (excluding packing)	1,006.400 g
Custom tariff number	85044030
Country of origin	China

## Technical data

### Dimensions

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### Dimensions

Width	48 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	51 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2.5 %/K)
Ambient temperature (start-up type tested)	-40 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	100 % (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2

### Input data

Nominal input voltage range	60 V DC ... 72 V DC
Input voltage range	42 V DC ... 96 V DC
Current consumption	5.6 A (60 V DC) 4.7 A (72 V DC)
Inrush current	< 9 A (typical)
Mains buffering time	typ. 10 ms (60 V DC)
Input fuse	10 A 150 V DC (internal (device protection))
Type of protection	Transient surge protection
Protective circuit/component	Varistor

### Output data

Nominal output voltage	24 V DC $\pm$ 1 %
Setting range of the output voltage ( $U_{Set}$ )	18 V DC ... 29.5 V DC (> 24 V DC, constant capacity restricted)
Nominal output current ( $I_N$ )	10 A (-40 °C ... 60 °C)
POWER BOOST ( $I_{Boost}$ )	12.5 A (-40 °C ... 40 °C permanent, $U_{OUT} = 24$ V DC )
Selective Fuse Breaking ( $I_{SFB}$ )	60 A (12 ms)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	yes
Feedback voltage resistance	35 V DC
Protection against overvoltage at the output (OVP)	< 35 V DC
Max. capacitive load	unlimited
Active current limitation	18 A
Control deviation	< 1 % (change in load, static 10 % ... 90 %)