

DC/DC converters - QUINT-PS/12DC/12DC/8 - 2905007

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Primary-switched QUINT DC/DC converter for DIN rail mounting with SFB (selective fuse breaking) technology, input: 12 V DC, output: 12 V DC/8 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. The high level of system availability is additionally ensured, thanks to preventive function monitoring, as it reports critical operating states before errors 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



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356908412
Weight per Piece (excluding packing)	849.500 g
Custom tariff number	85044030
Country of origin	China

Technical data

Dimensions

Width	32 mm
Height	130 mm
Depth	125 mm

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Technical data

Dimensions

Width with alternative assembly	122 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	35 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)	≤ 95 % (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2

Input data

Nominal input voltage range	12 V DC
Input voltage range	9 V DC ... 18 V DC
Current consumption	12 A (12 V, I _{BOOST})
Inrush current	< 6 A (typical)
Mains buffering time	typ. 3 ms (12 V DC)
Input fuse	25 A (internal (device protection))
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	12 V DC ±1 %
Setting range of the output voltage (U _{Set})	5 V DC ... 18 V DC (> 12 V DC, constant capacity restricted)
Nominal output current (I _N)	8 A (-25 °C ... 60 °C)
POWER BOOST (I _{Boost})	10 A (-25 °C ... 40 °C permanent, U _{OUT} = 12 V DC)
Selective Fuse Breaking (I _{SFB})	48 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	25 V DC
Protection against overvoltage at the output (OVP)	< 25 V DC
Max. capacitive load	unlimited
Active current limitation	15 A
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 2 % (change in load, dynamic 10 % ... 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 20 mV _{PP}
Peak switching voltages nominal load	< 10 mV _{PP} (20 MHz)
Maximum power dissipation in no-load condition	1.5 W