

ABB 560PSU02 48-220VDC 电源 1KGT011900R0001

Manual

Brand	-
Product Series	other
Product Type	and rubric should be used for redundant operation

Description

Application

The power supply unit 560PSU02 generates the two supply voltages (5 V DC and 24 V DC) for the RTU560 subracks 560MPR03 and 560SFR02. The output power is sufficient to supply a sub-rack with up to 8 communication units (CMU).

It is possible to configure redundant power supplies for project configurations with higher requirements to availability. In this configuration two power supply units 560PSU02 are operating in parallel mode. They are able to take over the full load, if one power supply fails. Only power supplies of the same type and rubric should be used for redundant operation.

The input voltage of the power supply unit is 48... 220 V DC.

Characteristics

The power supply unit 560PSU02 has the following characteristics and functions:

one

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Potential isolation between the input and the outputs Coding by natural convection

Electronic power limitation on outputs

Short-circuit proof outputs

Over-voltage protection of the input Reverse voltage protection of the input Parallel operation with monitoring of redundant power supply configuration

Controlled load balancing in redundant operation LEDs for monitoring the output voltages Alarm indication in case of failure

Tolerant on input voltage interruptions up to 50 ms

Input

Input voltage:

Input tolerance range

Voltage Interruption

Max. input current

Starting Current:

48...220V DC

20%... +15%

\$ 50 ms; 0% UN (UN2 48V)

2.4...0.5A

< 10A; 50us -1.5ms

(Class S1 according to IEC 60870-4)

Fuse

Efficiency:

External circuit-breaker

F1=4AT

74% @ 48...110 VDC

The plus lead needs to be protected by a circuit-breaker upstream with 10 A trip current.

Reverse voltage protection

yes

Output

Total output power

Derating

85W

-2,5 %/Kelvin; 50°C

Output U1

Voltage

Tolerance

Current min.

Current max

Residual Ripple

5.1VDC

5.0...5.3VDC

0A

15A

s 30mVss

Output U2

Voltage

Tolerance

24 VDC

22,4 ...26,3 VDC

Current min.

Current max.

Residual Ripple

0A

0,4A

s 80 mVss

Mechanical layout

Dimensions

160 mm x 100 mm, 3HE euro card

format

8R (40 mm) front panel

Housing type

Mounting

Weight

Printed circuit board

for mounting in RTU560 racks

ca. 0,65 kg

Connection type

RTU560 backplaneconnector

Supply connector

48pdetypeF DN 41612

3 pole 7.62 mm pluggable screw terminals (included in delivery) 0.2... 2.5 mm²/AWG 24 - AWG 12

Environmental conditions

Nominal operating temperature range: 0°C...70°C

EN 60068-2-1,-2-2,-2-14

Relative humidity

www.AutoDCSTech.com

EN60068-2-30

5...95 9

(non condensing)

Ordering information

560PSU02 R0001

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www.AutoDCSTech.com