

Environmental Compatibility

EN60068 -2	70 °C 96h
Continuous Test	fully active loaded
EN60068-2-1	-25 °C 96h
Continuous Test	fully active loaded
EN60068-2- 1	-40 °C
Start up Test	System starts on -40 °C
EN60068-2-14	0 °C / 70 °C Temperature
Continuous Test	cycles 48h, fully active loaded
EN60068-2-30	55 °C / 95% rel. Humidity
Continuous Test	Storage, not activ
IEC60255-21-3	Class 1
Seismic Test	
IEC60255-21-1	Class 1
Vibration Test	
IEC60870-2-2	Class Bm
Vibration durance test	
IEC60255-21-2	15g, Class 1
Schock Test	
IEC60870-2-1	25g, Class 1
Schock Test	
IEC60255-21-2	10g, Class 1
Bump Test	

Electrical Safety

EN60950- 1	Electrical Safety investiga- tion
Safety class 1	Flammability investigation

Environmental Conditions

Temperatur	-40 °C	start up
	-25 °C - +70 °C	operation
	-40 °C - +85 °C	storage
Relative humidity	5 - 95 %	(non condensing)

Ordering Information

560PSR00 R0001



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051-37677068-9



PSR00

Catalog RTU560

Application

The 560PSR00 power supply unit provides two output voltages, 5 VDC and 24 VDC, to the RTU560 subracks: 23ET24, 23TP22, 560MPR03, and 560SFR02.

It has sufficient capacity to supply a subrack containing up to four communication modules.

For projects requiring higher availability, redundant power supply configurations can be implemented. In such setups, two 560PSR00 units operate in parallel, ensuring that the load is maintained if one unit fails. Only power supplies of the same type and specification should be used for redundant operation.

The 560PSR00 power supply is available in a single version:

- **R0001:** Input range 24 - 60 VDC

Characteristics

The 560PSR00 power supply unit features the following characteristics and functions:

- Electrical isolation between input and output
- Natural convection cooling
- Electronic current limitation
- Short-circuit protection
- Overvoltage protection
- Controlled load distribution
- Two LEDs indicating output voltages U1 and U2
- Parallel operation with monitoring for redundant power supply configurations
- Alarm relay for fault indication
- Reverse voltage protection

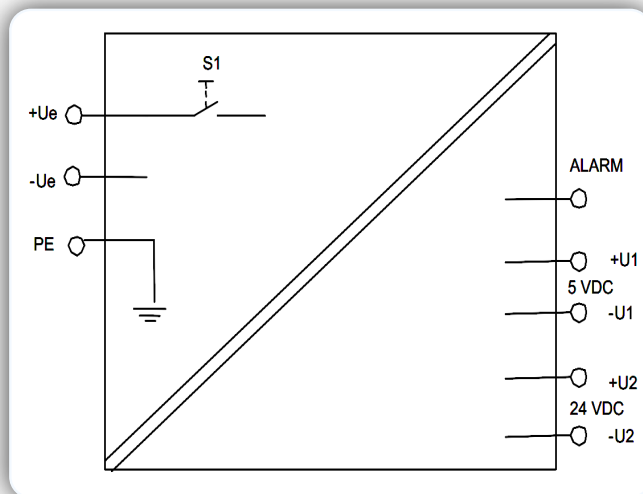


Figure 1: Block diagram 560PSR00

Technical Data

In addition to the general technical specifications of the RTU560, the following conditions apply:

Input

R0001	24 to 60 VDC nominal 19.2 - 69 VDC (-20% - +15 %)
Voltage Interruption	≤50 ms; 0 % UN (UN ≥ 48V)
Starting Current:	≤ 10 A according IEC 60870-4
Efficiency:	≈ 85 %
External circuit breaker	the plus lead needs a circuit breaker upstream with 10A trip current.

Output

Output Power	44.3 W total
De-rating	-2.5 % per Kelvin ≥ 55 °C

Output U1

Voltage:	5.0 VDC
Tolerance:	5.0 - 5.3 VDC
Current min.:	0.2 A
Current max.:	5.5 A
Residual Ripple	≤ 30 mVss

Output U2

Voltage:	24 VDC
Tolerance:	22.4 - 26.3 VDC
Current min.:	0 A
Current max.:	0.7 A
Residual Ripple	≤ 80 mVss

Mechanical Layout

PCB dimension	3HE, Euro-Card format (160 × 100 mm)
Front panel	8R, 2 Slots (40 mm)
Weight	Ca. 0.6 kg

Connection Type

Connector	Indirect, 48 pole Type F DIN 41612
Supply Connection connection	Indirect, 3 pole, COMBICON terminal GMSTB 2.5/3 - ST- 7.62 or GMVSTBR 2.5/3-ST-7.62

Electromagnetic Compatibility

EN61000-4-2	8 KV Air
Electrostatic Discharge Immunity	6 KV dire Xct Performance criteria A
EN61000-4-3	10 V/m
Radiated RF Field	Performance criteria A
EN61000-4-1	1 KV/2 KV
Fast Transient Immunity (Burst)	Performance criteria A
EN61000-4-5	2 KV
Surge Immunity	Performance criteria A
EN61000-4-6	10 V
Conducted RF Field	Performance criteria A
EN55011	30 MHz up to 1 GHz
RF emissions air	class B (Industry)
EN55011	0.01 MHz up to 30 MHz
RF emissions cable	class B (Industry)
EN61000-4-16	300 V / 0.6 A 30 V / 6 A
EN61000-4-17	12.5% AC simple
EN61000-4-18	2 KVDC PE 1 KVDC + / DC