

AC-DC Converter ACDC500-230-67

Universal Power Supply for Telecom Applications

Specification

General

Electrical safety	EN 60950
Protection class	1
Isolation group	pollution degree 2
Inflammability	according UL 94V0

Electrical data

Input

Mains voltage nom.	$U_N = 230 V_{AC}$
Voltage range	197 – 265 V_{AC}
Frequency range	45-66 Hz, sine wave
Mains Connection	1-2 phase

Output

DC voltage nom.	-67 VDC, positive pole is connected with chassis / protective earth
Output current I_{NOM}	3,7 A ea. 250W module
Output power	up to 500W, module power size = 250W, without derating up to 50°C
Overload	1,2 x I_{NOM}
Efficiency	>90%
Mains hum at full load	≤100 mVpp at 197 V_{AC} input
Ripple at full load	≤200 mVpp (20 MHz)
Mains regulation	≤0,1% (197/264 V_{AC})
Load regulation	≤1% (10/90% load jump)
Recovery time	≤1 ms (10/90% load jump)
OVP threshold	75 V_{DC}
TK of output voltage	≤ 0,05% / °C
Current limitation	constant current, short-circuit proof
Paralleling function	2 x 250W module in one module rack, separate redundant mains input lines, (A + B System), AC 2 has priority
Number of outputs from the module rack	5 outputs from internal current distribution
Output protection	adjustable electronically fuse, 0-8 A via rotary selector, located at the front panel

Environmental conditions

Conditions:	
During operation	-5°C to +50°C, non-condensing
During transport/stocking	-40°C to +85°C (in original packing)
Relative air humidity	0% to 95% relative humidity
Max. operation altitude	2000 meters

Reliability

Life utility	≥ 8 years, MTBF ≥ 50 y
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Warranty

24 months



Picture may differ from actual device

EMC

Emission	EN 50081-1/2, EN 55022 B
Immunity	EN 55024, EN 61000-6-2 (Industrial areas)
Burst (EFT)	4 kV, 50 Ohm, direct coupled
Surge	2 kV
ESD	15 kV air, 8 kV conducted

Signaling

Alarm contact	potential free, general alarm
Visual	each 250W module: LED (green) power supply o.k. each DC output in the module rack: LED (red) status of electr. fuses

Mechanical data

Case material	Sheet steel, zinc-plated
Construction	19" rack mounting
Dimension:	
Sub-rack	19", 1U, depth = 244 mm
250 W module	130 x 40 x 160 mm
Weight:	
Module carrier	approx. 4,3kg (full rack)
250 W module	approx. 1,5kg
Protection	IP 20
Cable access	rear side
Cooling	forced ventilation, temperature controlled fan in each 250W module

Connection Terminals

Mains input AC1/2	IEC inlet connector, EN60320
Output DC	pluggable screw clamps, type Phoenix CombiCon, 3 pole connector, Type Phoenix MC 1,5/17-G3,5/1,5 mm ²
Alarm contact	

Order Code

ACDC500-230-67

Optional

ACDC250-230-67
(module rack + power module)