

AC-DC Converter ACDC500-230-67-K1

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

Output

DC voltage nom.	-67 V_{DC} , positive pole is connected with chassis / protective earth
Output current I_{nom}	3,7A per 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 modules in one module rack

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
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Max. operation altitude	2000 meters
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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



Picture may differ from actual device

Reliability

Life utility	≥8 years, MTBF ≥50 y
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Signaling

Alarm contact	potential free, general alarm, battery o.k.
Visual	each 250W module: LED (green) power supply o.k.

Mechanical Data

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

Connection Terminals

Mains input AC	IEC inlet connector, EN60320
Output DC	screw clamps, type Phoenix Front 4-H-7,62
Output battery	screw clamps, type Phoenix Front 4-H-7,62
Alarm contact	connector, type Phoenix MC 1,5/8-G3,81/1,5 mm ²
(Optional)	Battery sense connection PT1000)

Warranty

24 months

Order Code

ACDC500-230-67-K1