

AC-DC Converter ACDC500-230-67-K1

Universal Power Supply for Telecom Applications

General

Electrical safety	EN 60950
Protection class	1
Isolation group	pollution degree 2
Inflammability	according UL94V0

Electrical data - Input

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

Electrical data – Output

DC voltage nom.	-67 V_{DC} , positive pole is connected with chassis / protective earth
Output current I_{NOM}	3,7A each 250W module
Output power	Up to 500W, module power size = 250W, without derating up to 50°C
Overload	1,1 x I_{NOM}
Efficiency	>90%
Mains hum at full load	≤100mVpp at 197 V_{AC} input
Ripple at full load	≤200mVpp (20MHz)
Mains regulation	≤0,1% (197/264 V_{AC})
Load regulation	≤1% (10/90% load jump)
Recovery time	≤1ms (10/90% load jump)
OVP thresholds	75 V_{DC}
TK of output voltage	≤0,05% / 1°C
Current limitation	Constant current, short circuit proof
Paralleling function	2 x 250W module in one module rack

Environmental conditions

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

Reliability

Life utility	≥8 years, MTBF ≥50y
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Warranty 24 months



EMV

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

Signaling

Alarm contact	Potential free, general alarm, battery ok
Visual	Each 250W module: LED (green) power supply ok

Mechanical data

Case material	Sheet steel, zinc-plated
Construction	19"rack mounting
Dimension:	
Sub-rack	19", 1U, depth 244mm
250W module	130 x 40 x 160mm
Weight:	
Module carrier	approx. 4,3kg (full rack)
250W module	approx. 1,5kg
Protection	IP20
Cable access	Rear side
Cooling	Forced ventilation, temperature controlled fan in each 250W 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 MC1,5/18-G3,81/1,5 mm ²
Optional	Battery sense connection PT1000

Order Code ACDC500-230-67-K1