

AC-DC Converter ACDC500-230-67

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 |
| Mains connection | 1-2 phase, phase difference max. 120° |

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, 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, 0-8A via rotary selector, located at the front panel |

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 |

Warranty

24 months

Änderungen vorbehalten

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Version 3.4



Reliability

| | |
|--------------|---------------------|
| Life utility | ≥8 years, MTBF ≥50y |
|--------------|---------------------|

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 |
| Visual | Each 250W module: LED (green) power supply ok 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 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 AC1/2 | IEC inlet connector, EN60320 |
| Output DC | Pluggable screw clamps, type Phoenix CombiCon, 3-pole |
| Alarm contact | Connector, Type Phoenix MC1,5/17-G3,5/1,5 mm ² |

Order Code

ACDC500-230-67

Optional

ACDC250-230-67

(module rack + power module)