Cod. Doc.: 6102-211.0

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1. Description

The AL-3510 is a full range power supply.

2. Specifications

2.1. General

- Operation temperature: 0 a 60°C based on IEC 1131
- Stocking temperature: -25 a 60°C
- Operation humidity: 5 a 95% without condensation based on IEC 1131 level RH2
- MTBF: 40.000 @ 40°C based onMIL-HBDF-217E
- Output tension LED indication
- Normally open dry contact indicating operation of the power source, available at the OK0, OK1 and the GND connector
- Battery self testing, indication by LED on frontal
- Mechanical protection: IP30, finger access based on IEC Pub. 144(1963)
- Weight: net: 1500 g packed: 2000 g

2.2. Electrical

- Power supply: 93,5 to 253 VAC or 90 to 250 VDC
 - or 20 to 60 VDC
- Power frequency: 47 a 63 Hz
- Output tensions: +5 VDC ±5% +15 VDC ±10% -15 VDC ±10%
- Inrush current: 25 A for half cycle
- Maximum input power: 140 VA
- Power factor:
- 0,75 on nominal load ■ Output currents:
 - +5 VDC: 8,0 A +15 VDC: 1,0 A -15 VDC: 1,0 A
- Efficiency: 70%
- Output ripple:
 +5 VDC: 50 mVpp
 +15 VDC: 100 mVpp
 -15 VDC: 100 mVpp
- Noise: +5 VDC: 100 mVpp +15 VDC: 150 mVpp -15 VDC: 150 mVpp
- Load and bus regulation
 - +5V: 5% +15V: 10%
 - -15V: 10%
- Maximum output power: 70 W
- Full load operation for 10ms without power supply
- Protections:

- over and under tension on power supply
- output short circuit
- output over tension
- Battery:
 - lithium 1 AA 3V
 - capacity: 1,4 Ah @ 25°C
 - self load discharge: 5 years @ 25°C
 life: 14.000 hours @ 25°C
- Electrostatic Surge Discharge: based on IEC 1131, level 4
- Electrical noise immunity (oscillating wave): based on IEC-1131 level A and IEC 3790.1 part A (SWC)
- Dielectric withstand voltage:
 - 2500 VDC between Input and Outputs
 - 1500 VAC rms between Inputs and Outputs based on IEC 1131 and IEC 255-5
- Irradiated electrical field immunity: 10V/m @ 140 MHz based on IEC-1131
- Protection against electrical shock: based on IEC 1131 and IEC-536-1976, class I
- Resistive switching capacity of relay indication of
 - functionality: 1 A @ 30 Vdc
 - 0,28 A @ 110 Vdc 1 A @ 62.5 Vac
 - 0,5 A @ 125 Vac

3. Physical Dimensions

