

# AV-21, AV-21B Power Supply & Charger

## INSTALLATION INSTRUCTIONS

Item: 4728 (A5DS)

### Description

The AV-21 is a compact size, simple to install Power Supply and Battery Charger, provides the extra power for large alarm systems installations, CCTV cameras and other jobs where the standard power supply is not sufficient. The AV-21 is protected against short and overload, high RF immunity provides operation at application that GSM or other RF sources presents (RF CS transmitters).

The AV-21 is supplied as PCB and the AV-21B contains the same PCB enclosed in an ABS box, metal box is optional. Transformer to fit is optional, for 220V main AC use type 5003TER, for 110V main AC use type 5002TER.

### Ordering

AV-21, power supply supplied as PCB

AV-21B, supplied in ABS box plus 5003TER fused transformer

AV-21BU, supplied in ABS box plus 5002TER fused transformer

### Installation Instructions

- The AV-21 supply maximum 1.5A, before loading measure the load current
- The metal heat sink is **HOT** under full load, be careful!

#### ***Step One: Mounting the PCB***

Locate the power supply in a ventilated and dry place. When used with Av-Gad *EasyLoader* panels, the PCB fits on the main board two upper screws.

For other application use the two PCB holders. Be careful not to short the PCB leads to a metal surface.

#### ***Step Two: Wiring***

The *AV-21* requires a 16V AC – 1.2A or 1.5A transformer for higher current. Av-Gad standard transformers, types 5003TER or 5005TER are most suitable for safety and error free operation.

Connect the transformer's 16V wires to the two "AC" terminals. Power-up, before load and battery connection verify that the LED is on.

Power-down the *AV-21*. Wire-up the load (sensors, keypads, etc.) in the correct polarity; Positive to the +V and Negative to the –V terminals, power up and verify the LED indicator is on, make sure the powered items well operate.

Connect the AV-21 Red wire to + (Positive) battery terminal and the Black wire to the – (Negative) battery terminal.

The AV-21 is compatible with SLA type rechargeable battery. Use 12V 1 to 7 AH.

### Note for EasyLoader applications

When connecting the AV-21 to *EasyLoader* control panel, connect the -V from the AV-21 and the -V of the control panel.

Do not share the control panel AC transformer with the *AV-21*; Apply a separate transformer for the *AV-21*.

The AV-21 is electronically protected by a solid-state fuse (refer to figure 1) and over current circuitry build-in the regulator. In case of failure sense the fuse enclosure for over heating. Hot fuse means over loading. Disconnect the load and find the overloading item.

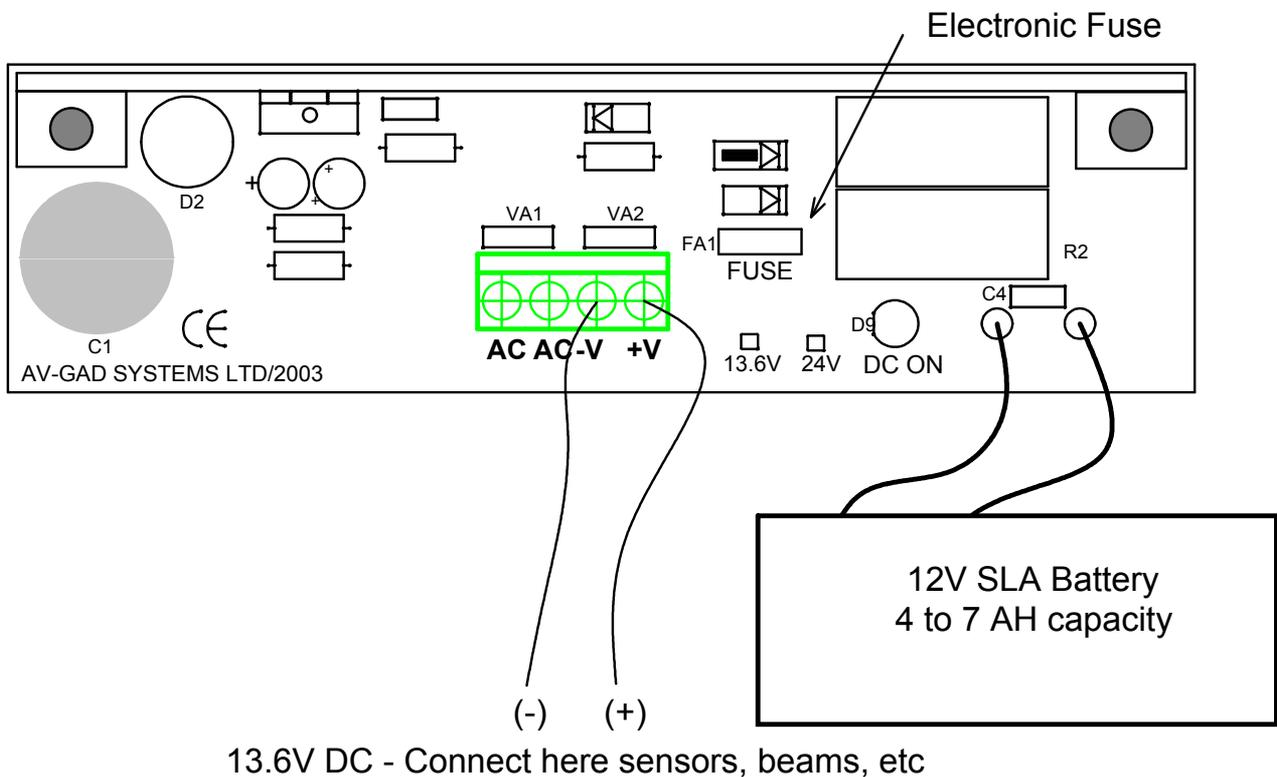


Figure 1: AV-21 power supply wiring

AV-21 Specifications		
Operating Temp: -10 to +60 C°	Ripple at 1A load: 20 mV, P-P	Power Indicator: LED
Humidity: 80%	DC Output: 13.6V DC, +/- 3%	Battery Size: 12V- 4 to 7.2 AH
Wiring: Screws Terminals	DC Current: 1.5A maximum	Battery Type: SLA (not incld.)
AC Input: 16V AC, 1.2 – 1.5A	Protection: Electronic fuse	Module Size: 125 x 40 m”m

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