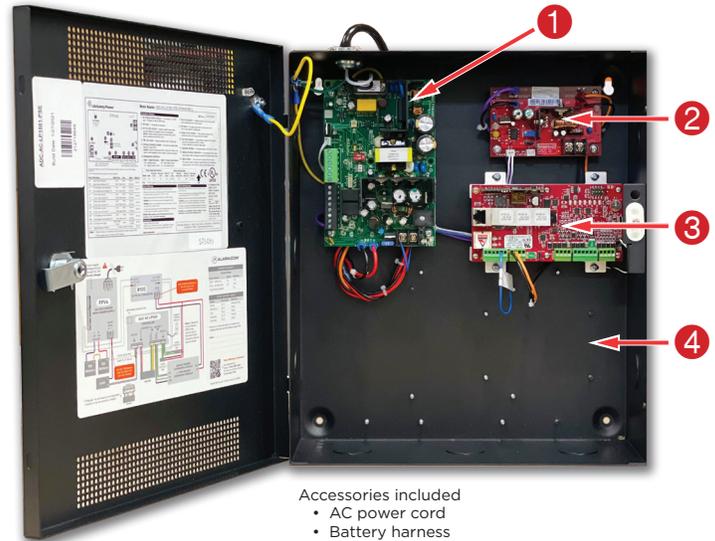


Description

The ADC-AC-LP1501-PSE is a single door access control unit featuring dual voltage power, an ADC-AC-LP1501 controller, and mounting studs for an additional ADC-AC-MR50 single door reader board, housed in a 12"x14"x 4.5" metal enclosure with battery space.

Equipment List

1. Power Supply 24VDC / 3A (model: FPV4)
2. Secondary 12V supply (model: B100)
3. ADC-AC-LP1501 controller
4. Mounting Studs for ADC-AC-MR50 expansion
5. ADC-AC-MR50 mounting hardware
6. AC power cord



Accessories included
 • AC power cord
 • Battery harness
 • ADC-AC-MR50 mounting hardware

System Operation

The FPV4 power supply converts AC primary power to 24VDC for charging the battery set and powering the B100, locking device(s), and 24V auxiliary devices. The B100 is powered from the FPV4 Auxiliary terminals and steps the 24V down to 12V to power the ADC-AC-LP1501 controller, reader(s), and any 12V auxiliary devices.

The battery set is charged by the red/black harness on the bottom edge of the FPV4. The battery set **MUST** be two 12V batteries in series for a 24V battery set. Observe polarity or damage to the system will occur.

Positive lock power is prewired to the ADC-AC-LP1501 lock relay terminal 1C. The lock positive should be wired to the NC (Fail Safe) or NO (Fail Secure) terminal as appropriate. The lock negative should be wired directly to the FPV4 DC OUT (-) terminal to minimize noise and surges in the system.

Terminal Output Ratings

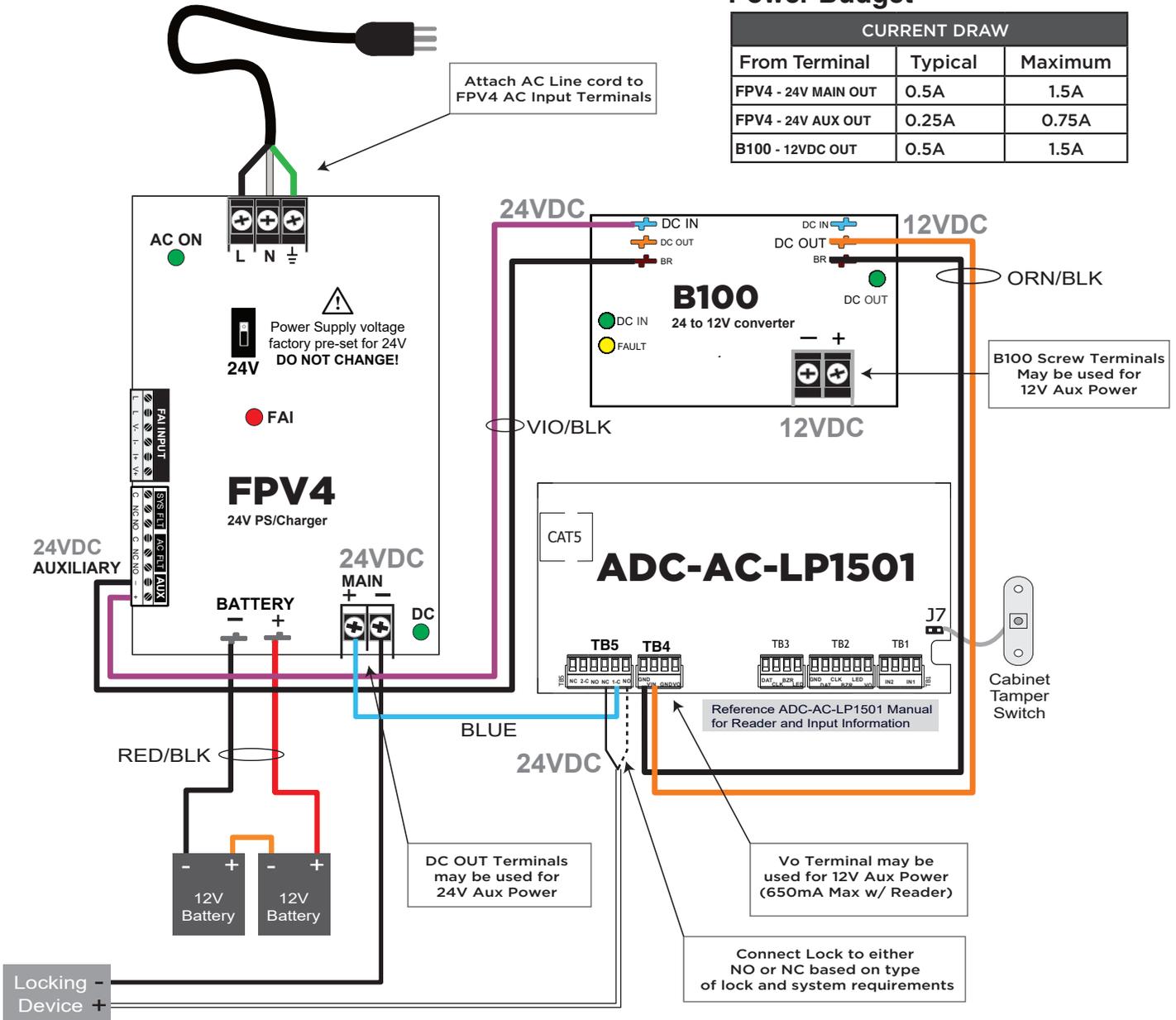
**Max currents listed are for individual terminals - total current at 12V and 24V not to exceed max rating of supply

Board	Terminal	Voltage	Max Current**	Notes
FPV4	DC OUT	24V	1.5A	Output can be switched by FAI Input on FPV4
	AUX OUT	24V	0.75A	Max Current includes current drawn by B100
B100	DC OUT	12V	1.5A	For additional 12V devices
	J2 (DC OUT)	12V	1.5A	For additional 12V devices
	J5 (DC OUT)	12V	1.5A	For additional 12V devices
	J1 (DC IN)	24V	0.75A	For additional 24V devices
	J4 (DC IN)	24V	0.75A	For additional 24V devices
ADC-AC-LP1501	VO	12V	0.65A	Max Current includes reader current draw
	1-C (NO or NC)	24V	1.5A	Switched Lock Output - Ground at FPV4 DC OUT (-) Terminal

Wiring Diagram

Power Budget

CURRENT DRAW		
From Terminal	Typical	Maximum
FPV4 - 24V MAIN OUT	0.5A	1.5A
FPV4 - 24V AUX OUT	0.25A	0.75A
B100 - 12VDC OUT	0.5A	1.5A



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