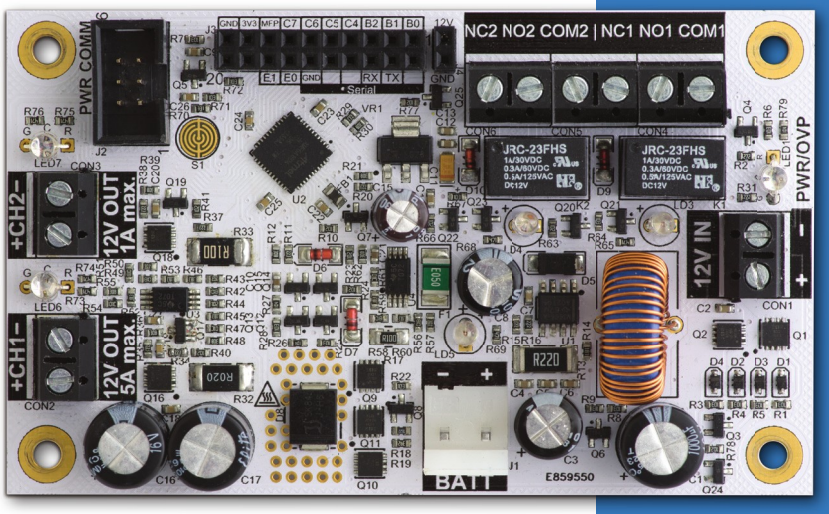
Predor Fusion 5+1

Intelligent Power Supply



MAIN FEATURES:

- 12 VDC, 5+1A switching mode, intelligent power supply unit
- 2 independent output channels
- Programmable battery test function
- Battery malfunction and performance degradation signaling
- 2 relay output
- Overcurrent, overvoltage and reverse polarity protections

PREDOR FUSION 5+1

The Predor Fusion 5+1 power supply unit is designed to monitor battery performance and provide reliable power source for access control applications. To fully utilize its capabilities a Predor Access Control Unit is required but it can supply other 12 VDC powered access control units or devices. The relay outputs can signal low battery state and loss of input power for a number of applications universally.

2 RELAY OUTPUT

Relay #1 (NC1/NO1/COM1) indicates battery related problems, malfunctions and during input power loss, low charge state.
Relay #2 (NC2/NO2/COM2) indicates loss of input power.

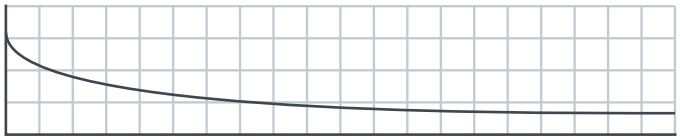
2 INDEPENDENT OUTPUT CHANNELS

Channel #1 is rated up to 5A, Channel #2 is rated up to 1A. If any protection activates on one channel (for example in case of a short circuit or overload), that channel turns off but the other channel is unaffected.

BATTERY TESTING FUNCTION

Battery performance can be monitored by scheduled testing sessions. The frequency of these sessions can be programmed. The test results are assessed automatically. If a serious performance loss or any failure is detected, the PSU not only indicates it with the relay output but also notifies the access control unit, so in the Predor Client software it is easy to check which battery needs replacement.

Last test
2017.01.25 (13:50:01)



@ 0 min: 13.4 V Average current: 0.16 A @ 30 min: 12.9 V

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TECHNICAL DETAILS

PHYSICAL PARAMETERS

Dimensions: . . . . . 60 x 100 mm

ENVIRONMENTAL PARAMETERS

Operating temperature: . . . . . 0–50 °C
Operating humidity: . . . . . .10–90% (non-condensing)
Storage temperature: . . . . . .-20–60 °C
Storage humidity: . . . . . .10–90% (non-condensing)

ELECTRICAL CHARACTERISTICS:

Input Voltage: . . . . . U_{IN} = 12 VDC
Output Voltage: . . . . . U_{OUT}= 12 VDC (12 VDC Input Voltage)
Quiescent Current: . . . . . I_{NOM} = 100 mA
Battery Charging Voltage: . . . . . U_{BAT} = 13.6–13.9 VDC
Battery Charging Current: . . . . . I_{BAT} = 500 mA
CH1 Rated Output Current: . . . . . I_{CH1} = 5 A max.
CH2 Rated Output Current: . . . . . I_{CH2} = 1 A max.
Relay Output Ratings: . . . . . 1 A / 30 VDC; 0.3 A / 60 VDC; 0.5 A / 125 VAC