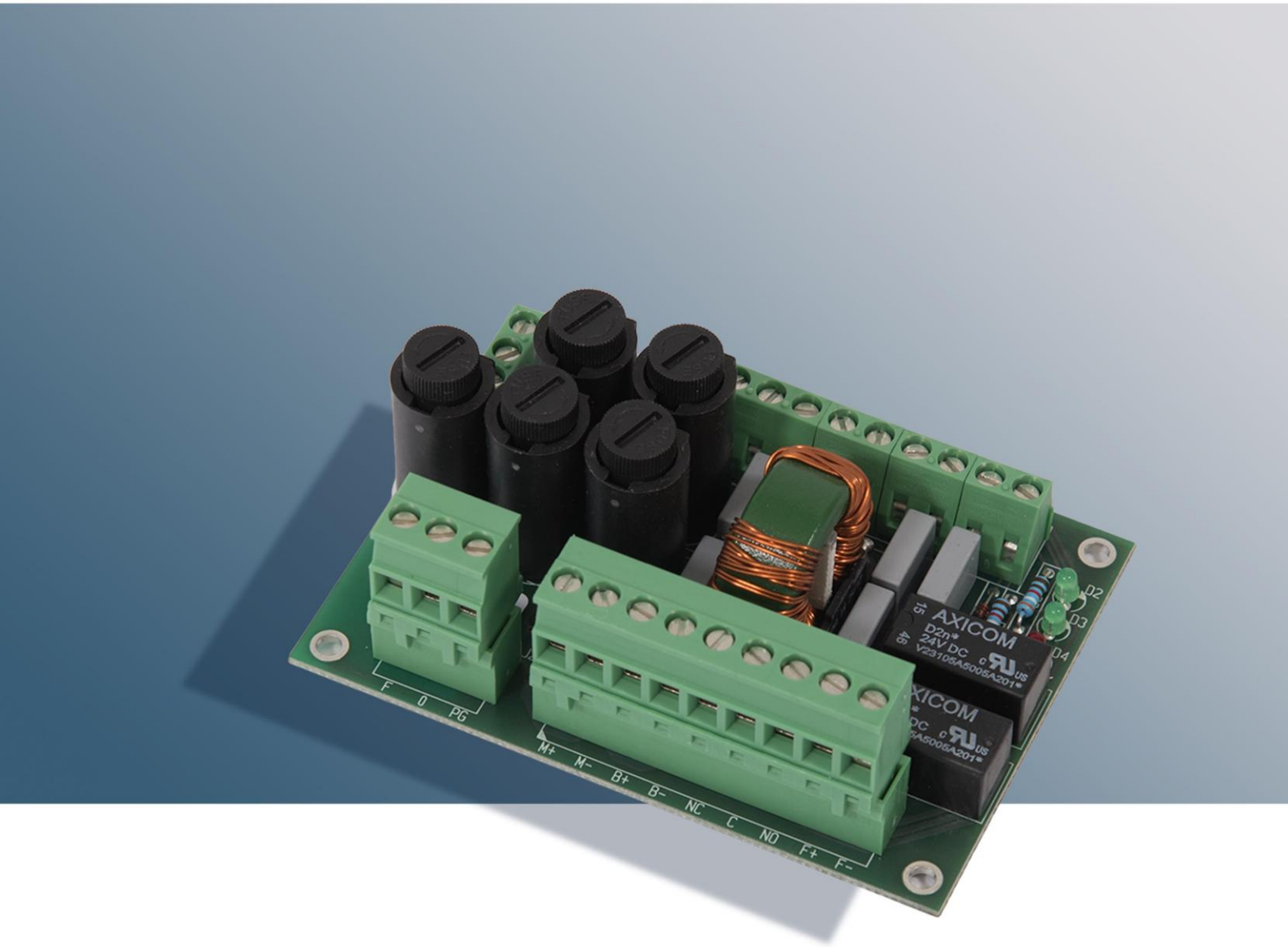
PIM

Power Input Module



Power Input Module for SeaCom 1000, 2100 and SeaCom 19’’

SEACOM

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Description and use

The Power Input Module creates a point for connecting power to the systems. It is a build in part of the SeaCom 1000 and 2100 and can be used for power input when using the SeaCom 19'' system as well.

It has two 24V power inputs: main and battery, and there is an on board summing diode. There is NO galvanic isolation between battery and main.

The presence of the powers is indicated by LED indicators.

The PIM module has an alarm relay to be connected to bridge alarm systems. The alarm relay interacts with the PSU2 in order to give CP software failure and temperature failure alarms.

A fan drive output is found. This output is controlled from the PSU2 so that the fan is only running when the system is too hot.

An optional 230V AC fuse is provided, to be used if an internal AC/DC converter is required.

The PIM module is mounted using 3x6mm screws, and it must have 5mm standoffs to make a distance to the steel plate on which it is mounted.

Technical data

- 2 x 24V DC input
- V+, V- output for PDU
- M+, M- output for board magazine
- On board summing diode
- 4A max current
- Alarm relay out
- Fan drive output
- 230V AC fuse

Indicators

3 LED indicators are present:

Number	Use
D2	Power to board magazine indicator
D3	Auxillary power output indicator
D4	Alarm indicator

Connectors

Power input connector J1:

Number	Use
1	Main 24V +
2	Main 24V -
3	Battery 24V +
4	Battery 24V -
5	Alarm relay NC
6	Alarm relay center
7	Alarm relay NO
8	Fan drive +24V
9	Fan drive -24V

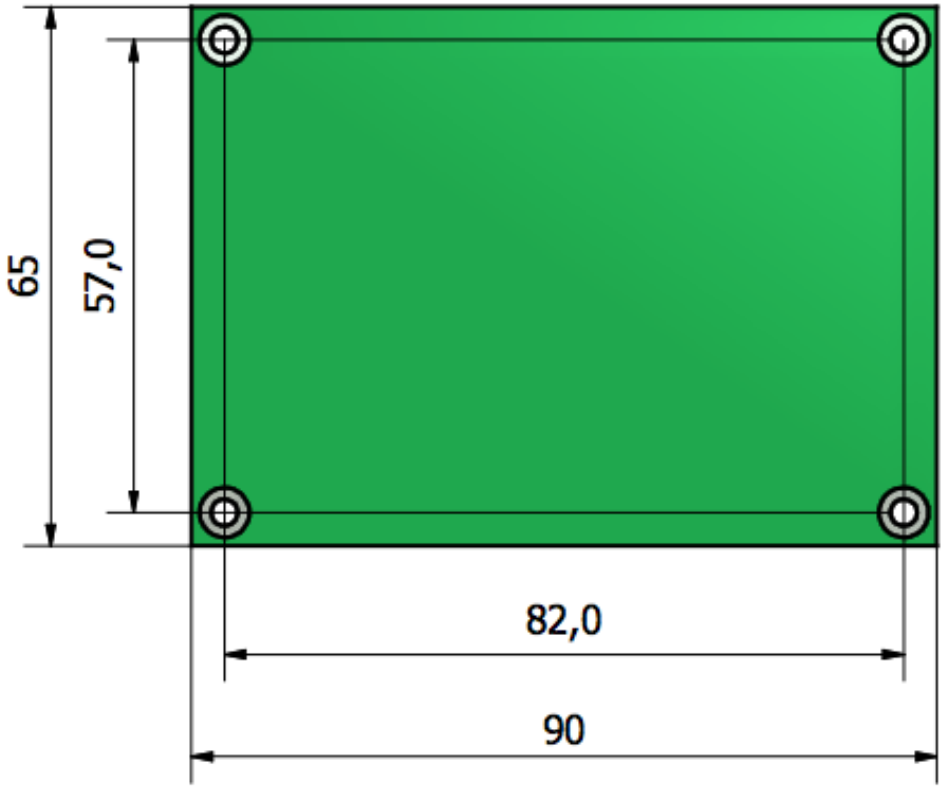
Power output connector J3:

Number	Use
1	Aux 24V out +
2	Aux 24V out +
3	Aux 24V out -
4	Aux 24V out -
5	Board magazine 24V+
6	Board magazine 24V-
7	Alarm relay
8	Alarm relay
9	Fan relay drive

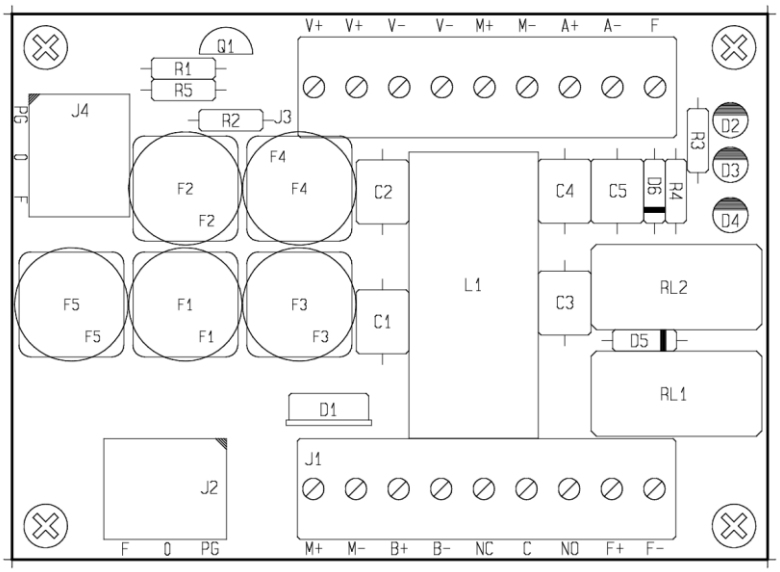
Order information

20-110-0060

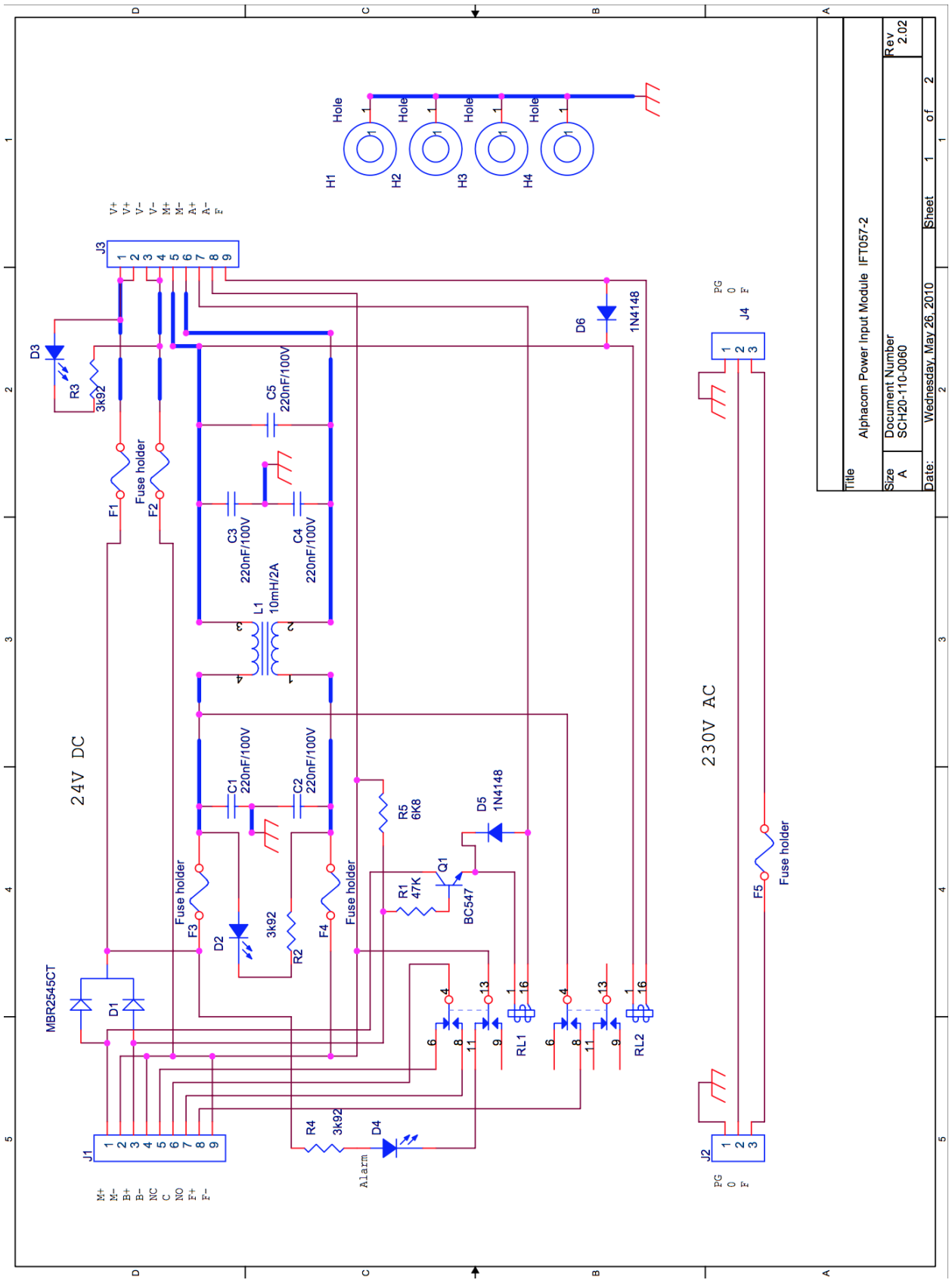
Mechanical dimensions



PCB layout



Schematic


Hole
H1
H2
H3
H4
J3
V+
V+
V-
V-
M+
M-
A+
A-
F
D3
R3
3k92
F1
Fuse holder
F2
C5
220nF/100V
C3
220nF/100V
C4
220nF/100V
L1
10mH/2A
D6
1N4148
24V DC
C1
220nF/100V
C2
220nF/100V
R5
6K8
D5
1N4148
Q1
BC547
R1
47K
Fuse holder
F3
D2
3k92
R2
F4
Fuse holder
MBR2545CT
D1
RL1
RL2
R4
3k92
D4
Alarm
J1
M+
M-
B+
B-
NC
C
NO
F+
F-
J4
PG
0
F
230V AC
F5
Fuse holder
J2
PG
0
F
Title
Alphacom Power Input Module IFT057-2
Size
A
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of
2