

PDU12-42.1

Power box PDU12-42.1

Inputs

16x Single ended analogue inputs

- Input range 0 – 5 V
- Sampling resolution 12 bits
- SW selectable pullup

6x Internal temperature

- Sampling resolution 12 bits
- Temperature range -40 / +140 °C

2x external Vref

- Output voltage accuracy < 0.2 %
- Output current up to 100 mA
- Short circuit to ground and battery protected

Communication

2x CAN line

- 1 Mbit/s throughput data rate
- 2.0B protocol
- SW selectable 120 Ω termination

Mechanicals

Enclosure

- Machined aluminium
- IP grade → IP65

Weight

- approx 870 g

Overall dimensions

- Without connectors 210 x 123 x 35 mm
- With connectors 210 x 123 x 45 mm
- Connectors:
 - 1x power supply terminal nut M6
 - 1x AS 2 14-35 PN
 - 1x AS 0 18-32 SN
 - 1x AS 0 18-32 SA



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Outputs

Common parameters

- Max operating voltage 18 V
- Max output voltage (low level state) 0.7 V
- Protected against short circuit to battery
- Protected against short circuit to GND
- Output currents sent to CAN
- Output states sent to CAN:
 - On/Off
 - High trip
 - Low trip
 - Short circuit
 - Overtemperature

26x Power outputs 7.5 A

- Power source type
- Max continuous current 7.5 A
- Resolution on CAN 0,05 A

8x Power outputs 15 A

- Power source type
- Max continuous current 15 A
- Resolution on CAN 0.1 A

6x Power outputs 22.5 A

- Power source type
- Max continuous current 22.5 A
- Resolution 0.2 A

2x Electric motor power outputs 7.5 A

- Push-pull type
- Max continuous current 7.5 A
- Electronic ground switching for el. motor braking function
- Protected against reverse current
- Resolution on CAN 0.05 A
- Outputs states of electric brake sent to CAN:
 - Normal
 - Overtemperature
 - Overload

