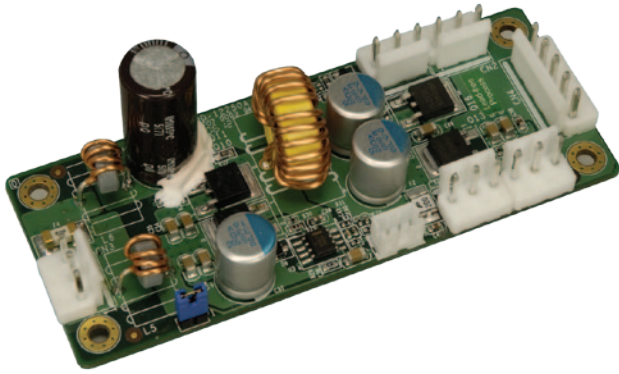


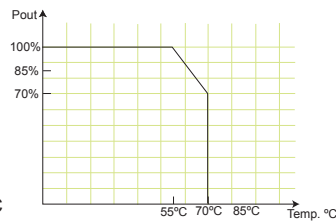
IDD-12250A

50 W+60 W DC/DC Converter Module



Specifications

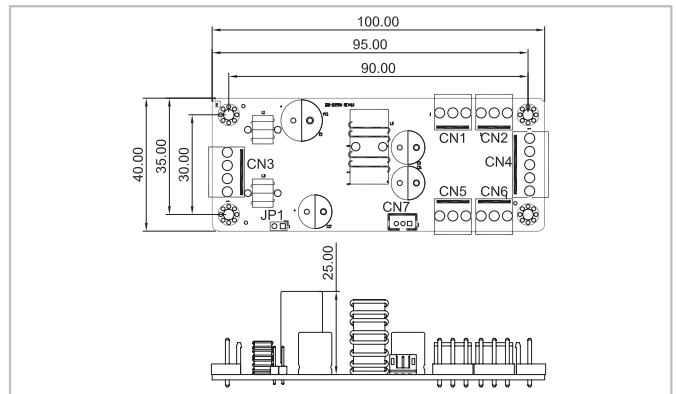
- Output (max.): 12 V@5 A (pass thru.), 5 V@10 A & 5 VSB@0.5 A
Max. total output: 50 W plus 60 W (12 V pass through)
- Input: 12 VDC
- Performance characteristics
Noise & ripple: <25 mV
Load regulation: <120 mV
Efficiency: Up to 90%
- Dimensions: 40 mm x 100 mm
- Weight: NW: 46 g
- Operating temperature: 0°C ~ 70°C



Features

1. 50 W + 60 W (12 V pass thru.) total power 110 W
2. AT or ATX mode on/off
3. Up to 90% efficiency
4. RoHS compliant
5. Compact size

Dimensions (Unit: mm)



Packing Information

1 x IDD-12250A

1 x QIG

Ordering Information

| Part No. | Description |
|----------------|---|
| IDD-12250A-R11 | 50 W+60 W DC/DC 12 V input, 12 V, 5 V & 5 VSB output |
| CB-5PSBC-RS | 20 cm cable to SBC power input |
| CB-JST3PSW-RS | 30 cm cable on/off switch |
| CB-JST3P001-RS | 30 cm 5 VSB, PS_ON wire to SBC |
| CB-3PSATA-RS | 10 cm cable for SATA power |
| CB-3PIDE-RS | 10 cm cable for IDE HDD power |
| CB-P1LP4-RS | 20 cm cable for FSP0601AD101C 60 W/ UP0451E12P 45 W/ UP0251E12PL 25 W AC-DC adapter |
| CB-MD4P4-RS | 16 cm cable for 63000-FSP120AAB-RS 120 W AC-DC adapter |
| CB-NOLP4-RS | 20 cm cable for terminal block DC input |

Pin Assignments

Input Power Connector

| CN3 | Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|-----|-------|-------|-------|-------|
| | VIN | VIN | GND | GND |

Output Power Connector

| CN4 | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 |
|-----|-------|-------|-------|-------|-------|
| | +5 V | +5 V | GND | GND | +12V |

| CN1 CN2 CN5 CN6 | Pin 1 | Pin 2 | Pin 3 |
|--------------------------|-------|-------|-------|
| | +5V | GND | +12V |

ATX Mode Connector

| CN7 | Pin 1 | Pin 2 | Pin 3 |
|-----|-------|-------|-------|
| | 5VSB | GND | PS_ON |

Wire Harness Selection Guide

DC Input (CN3)

Options 1.

PN: **CB-P1LP4-RS**

Cable for FSP0601AD101C 60 W/
UP0451E12P 45 W/UP0251E12PL
25 W AC-DC adapter

Options 2.

PN: **CB-MD4P4-RS**

Cable for 63000-FSP120AAB-RS
120 W AC-DC adapter

Options 3.

PN: **CB-NOLP4-RS**

Cable for terminal block

I/O Power (CN1, CN2, CN5 & CN6)

Options 1.

PN: **CB-3PSATA-RS**

Cable for SATA

Options 2.

PN: **CB-3PIDE-RS**

Cable for IDE HDD or any STD 4
pins I/O devices

SBC Main Power (CN4)

Options 1.

PN: **CB-5PSBC-RS**

5-pin connector to DC/DC
power modules CN4

12 V only connector for
NANO series SBC

Cable for SATA HDD

Power On/Off (CN7)

Options 1.

PN: **CB-JST3PSW-RS**

Cable with on/off switch

Options 2.

PN: **CB-JST3P001-RS**

Cable to SBC (5 VSB & PS_ON)

