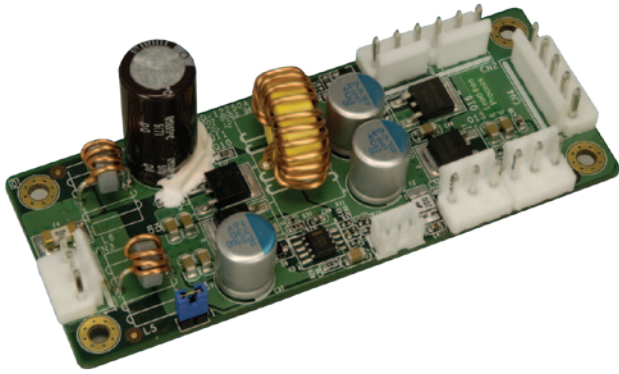


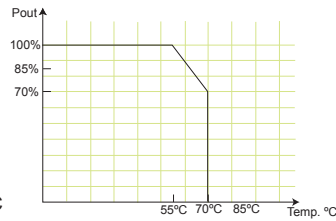
# IDD-12250A

50 W+60 W DC/DC Converter Module



## Specifications

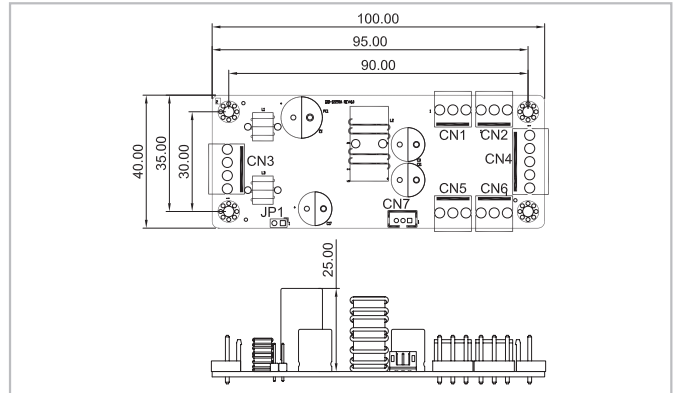
- Output (max.): 12 V@5 A (pass thru.), 5 V@10 A & 5 VSB@0.5 A  
Max. total output: 50 W plus 60 W (12 V pass through)
- Input: 12 VDC
- Performance characteristics  
Noise & ripple: <25 mV  
Load regulation: <120 mV  
Efficiency: Up to 90%
- Dimensions: 40 mm x 100 mm
- Weight: NW: 46 g
- Operating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

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)