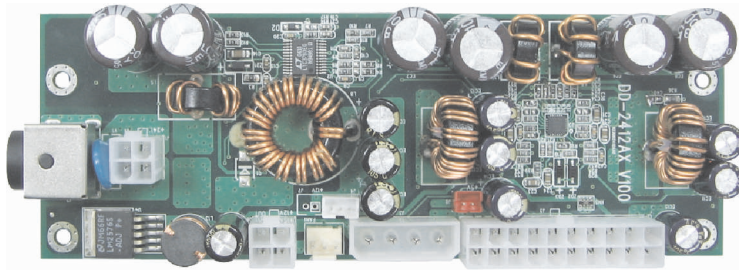
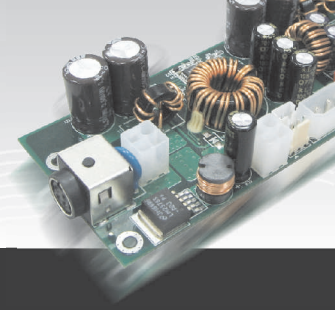


# DC To DC Power Units

# DD-2412AX

24V to ATX 220W DC/DC Converter Module

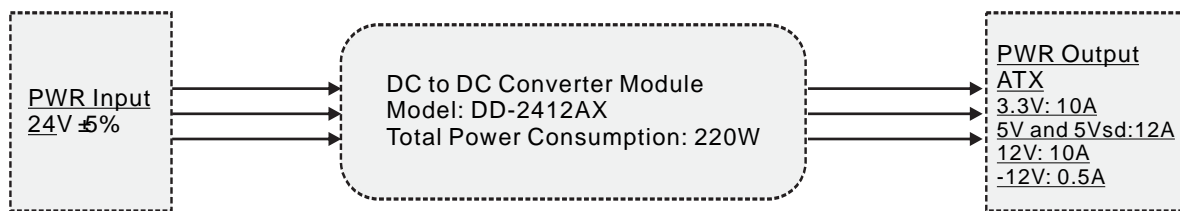


## Features

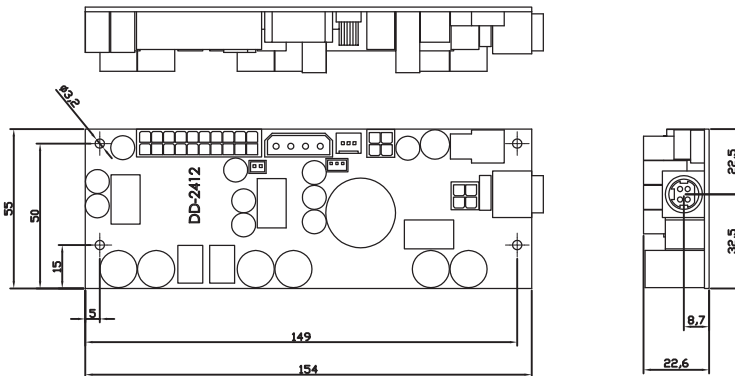
- High efficiency DC-DC Power Supply
- Output over-current protection
- DC soft start function, low inrush current
- RoHS Compliant
- No minimum load required

## GENERAL

Applicable to general Panel PC for 24V to ATX mainboard that acceptable ATX power



## MECHANICAL



\* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

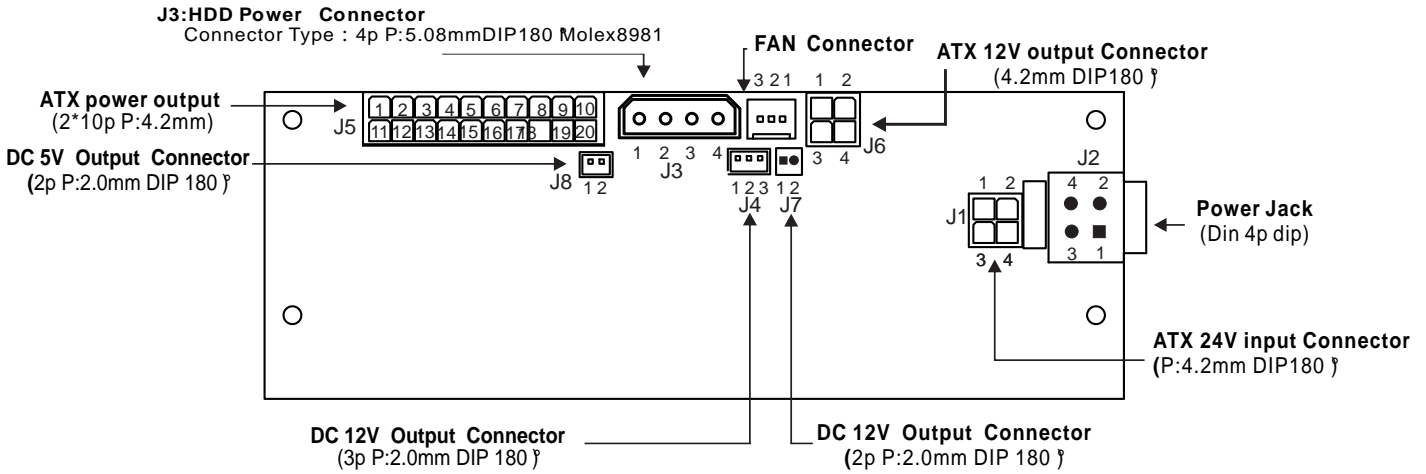
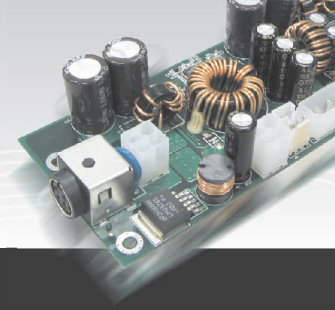
## Specifications

<b>Input Voltage</b>	:	24V DC $\pm 5\%$
<b>Load Range</b>	:	3.3V: 10A 5V and 5Vsd: 12A 12V: 10A -12V: 0.5A
<b>Ripple And Noise</b>	:	5V: Less than 100mV 3.3V: Less than 66mV 5Vsb: 100mV 12V: 120mV -12V: 200mV
<b>Line Regulation</b>	:	Less than $\pm 2.5\%$ at rated load with $\pm 10\%$ change in input voltage
<b>Load Regulation</b>	:	5V: Less than $\pm 5\%$ +12V: Less than $5\%$ -12V $\pm 5\%$ + 3.3V Less than $\pm 5\%$
<b>Efficiency</b>	:	88%
<b>Altitude</b>	:	0 to 10000ft
<b>Operating Temp</b>	:	0 $\approx$ 50
<b>Storage Temp.</b>	:	-20 $\approx$ 70
<b>Humidity</b>	:	10~90% non-condensing
<b>Dimension</b>	:	154x55x22.5(mm)

# DC To DC Power Units

# DD-2412AX

## 24V to ATX 220W DC/DC Converter Module



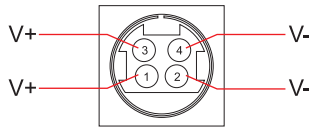
\* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

### Pin Assignment:

#### J1:ATX 4Pin 24V input Connector

Connector Type : P:4.2mm DIP180 Molex87427

Pin	Symbol
1	DC 24V Input
2	GND
3	GND
4	DC 24V Input



#### J2:Power Jack

Connector Type : Din 4p dip Power Jack QuickLock

Pin	Symbol
1	DC 24V Input
2	GND
3	DC 24V Input
4	GND

#### J3:HDD Power Connector

Connector Type : 4p P:5.08mmDIP180 Molex8981

Pin	Symbol
1	DC 12V Output
2	GND
3	GND
4	DC 5V Output

#### J4:DC 12V Output Connector

Connector Type : 3p P:2.0mm DIP 180 °

Pin	Symbol
1	DC +12V Output
2	DC +12V Output
3	DC +12V Output

#### J5:ATX power output

Connector Type : 2\*10p P:4.2mm Molex87427

Pin	Symbol
1	+3.3V
2	+3.3V
3	GND
4	+5V
5	GND
6	+5V
7	GND
8	Power Good
9	5V SB(stand by +5V)
10	+12V
11	+3.3V
12	- 12V
13	GND
14	PS_ON(soft on/off)
15	GND
16	GND
17	GND
18	(NC)
19	+5V
20	+5V

#### J6:ATX 4Pin 12V output Connector

Connector Type : P:4.2mm DIP180 Molex87427

Pin	Symbol
1	GND
2	GND
3	DC +12V Output
4	DC +12V Output

#### J7:DC 12V Output Connector

Connector Type : 2p P:2.0mm DIP 180 °

Pin	Symbol
1	DC 12V Output
2	GND

#### J8:DC 5V Output Connector

Connector Type : 2p P:2.0mm DIP 180 °

Pin	Symbol
1	DC 5V Output
2	GND

#### FAN1:FAN Connector

Pin	Symbol
1	GND
2	DC+12V
3	Sense