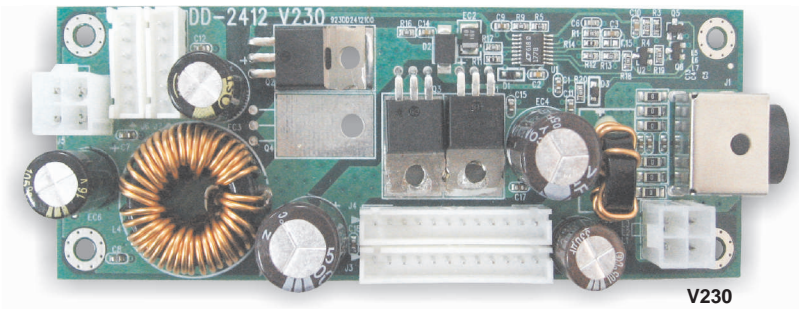
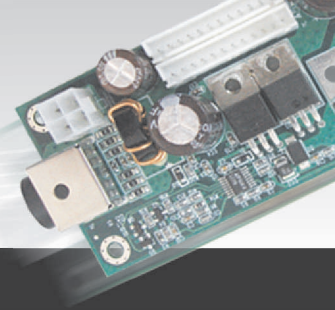


# DC To DC Power Units

# DD-2412

DD-2412 120W DC/DC Converter Module

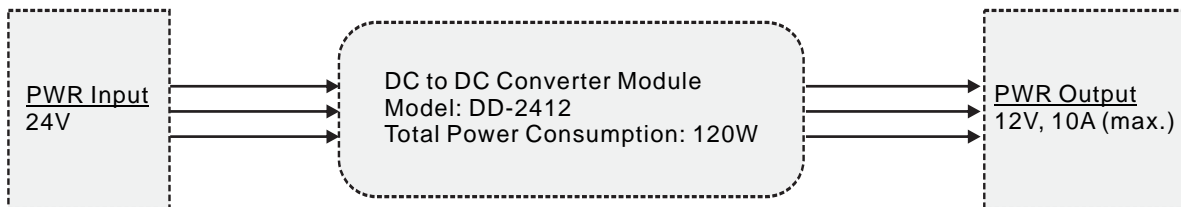


## Features

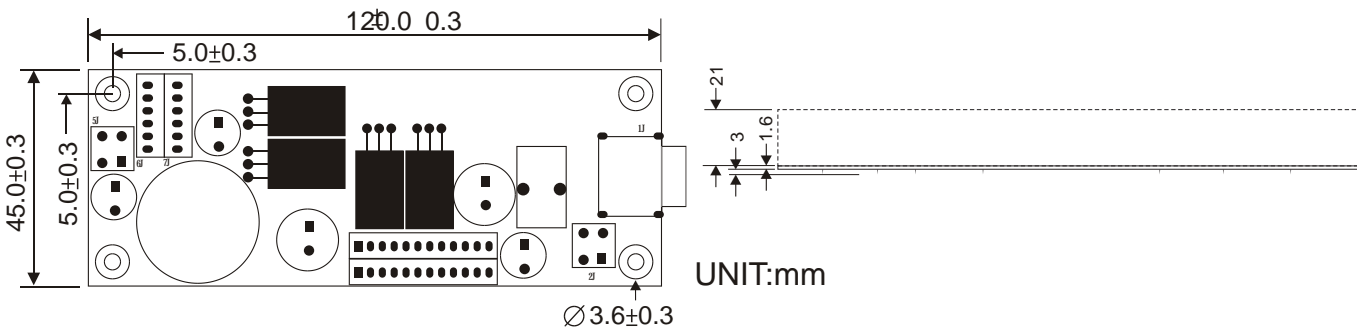
- High efficiency DC-DC Power Supply
- Output over-current protection
- DC soft start function, low inrush current
- Short circuit protection
- RoHS Compliant
- No minimum load required

## GENERAL

Applicable to large size Panel PC (above 23") for 24V DC input.



## 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.

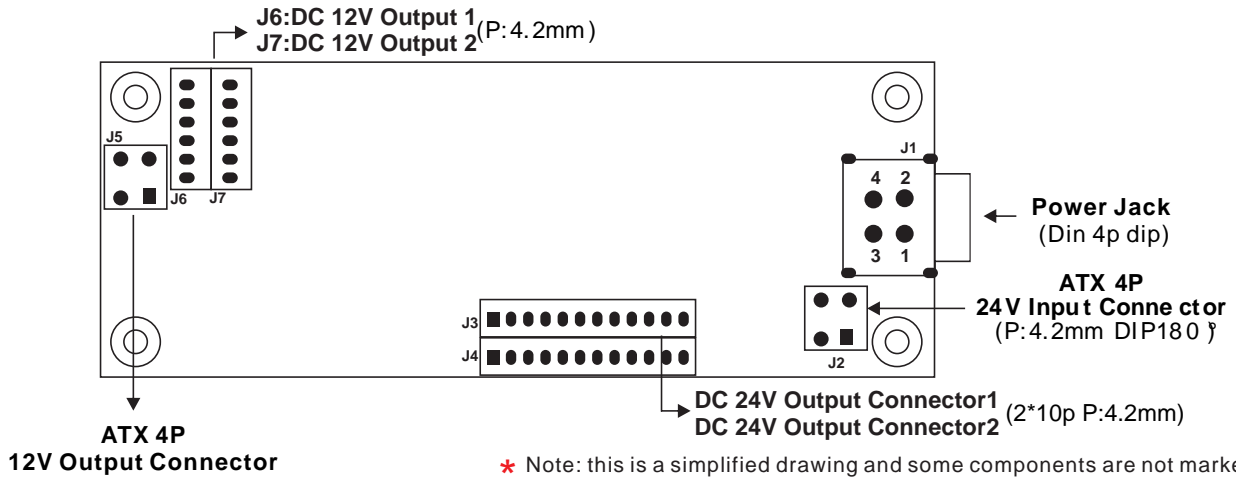
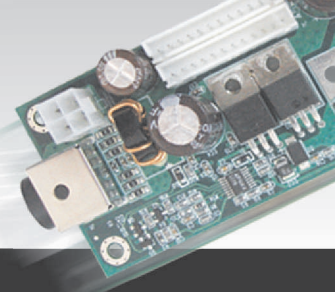
## Specifications

<b>Input Voltage</b>	: 24V DC
<b>Input Current</b>	: 5A@12V
<b>Output Voltage</b>	: 12V DC
<b>Load Range</b>	: 10A
<b>Ripple And Noise</b>	: 120mV
<b>Line Regulation</b>	: Less than $\pm 2.5\%$ at rated load with $\pm 10\%$ change in input voltage
<b>Load Regulation</b>	: Less than $\pm 2\%$
<b>Efficiency</b>	: 88%
<b>Altitude</b>	: 0 to 10000ft
<b>OCP Protection</b>	: When output power over 130%~180% of rating, power supply will shut down.
<b>Short Circuit Protection</b>	: Shutdown
<b>Cooling</b>	: Free air convection
<b>Operating Temp.</b>	: 0 $\approx$ 50
<b>Storage Temp.</b>	: -20 $\approx$ 70 °
<b>Humidity</b>	: 10~90% non-condensing
<b>Dimension</b>	: 120x45x25.6(mm)

# DC To DC Power Units

# DD-2412

DD-2412 120W DC/DC Converter Module

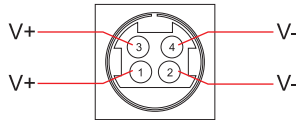


## Pin Assignment:

### J1:Power Jack

Connector Type : Din 4p dip Power Jack QuickLock

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



### J2:ATX 24V input Connector

Connector Type : Molex 39-28-1043 4.20mm Pitch Mini-Fit Jr.™ Header , Dual Row, Vertical

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

### J3: DC 24V Output Connector 1

Connector Type : JST-B2B-PH-K-S or equivalent.

Pin	Symbol
1	NC
2	NC
3	GND
4	GND
5	GND
6	GND
7	GND
8	24V
9	24V
10	24V
11	24V
12	24V

### J4:DC 24V Output Connector 2

Connector Type : Molex 015-24-4557 5.08mm Pitch Disk Drive Power Connection System Header, Vertical, Through Hole, 4 Circuits

Pin	Symbol
1	NC
2	NC
3	GND
4	GND
5	GND
6	GND
7	GND
8	24V
9	24V
10	24V
11	24V
12	24V

### J5:ATX 12V Output Connector

Connector Type : JST-B2B-PH-K-S or equivalent.

Pin	Symbol
1	GND
2	GND
3	12V
4	12V

### J6:DC 12V output 1

Connector Type : Molex 39-28-1043 4.20mm (.165") Pitch Mini-Fit Jr.™ Header , Dual Row, Vertical, or equivalent

Pin	Symbol
1	12V
2	GND
3	GND
4	GND
5	12V
6	12V

### J7:DC 12V output 2

Connector Type : Molex 39-28-1203 4.20mm (.165") Pitch Mini-Fit Jr.™ Header , Dual Row, Vertical, or equivalent

Pin	Symbol
1	12V
2	GND
3	GND
4	GND
5	12V
6	12V