

# DD-2412

## 24V to 12V 100W DC/DC Converter Module



### KEY FEATURES

- High efficiency DC-DC Converter Module
- Low inrush current
- Output over-current protection
- Wide range voltage input



### SPECIFICATIONS

#### System Specification

<b>Input Voltage</b>	24V to 12V DC	<b>Load Range</b>	12V 10A
<b>Power Consumption</b>	100W	<b>Ripple And Noise</b>	Less than 120mV
<b>Line Regulation</b>	Less than $\pm 1\%$ at rated 9~36V input voltage	<b>Load Regulation</b>	Less than $\pm 5\%$
<b>Efficiency</b>	Up to 90% (Full loading)	<b>Protection</b>	OCP protection OVP protection

#### Certification

**Certification** CE, FCC

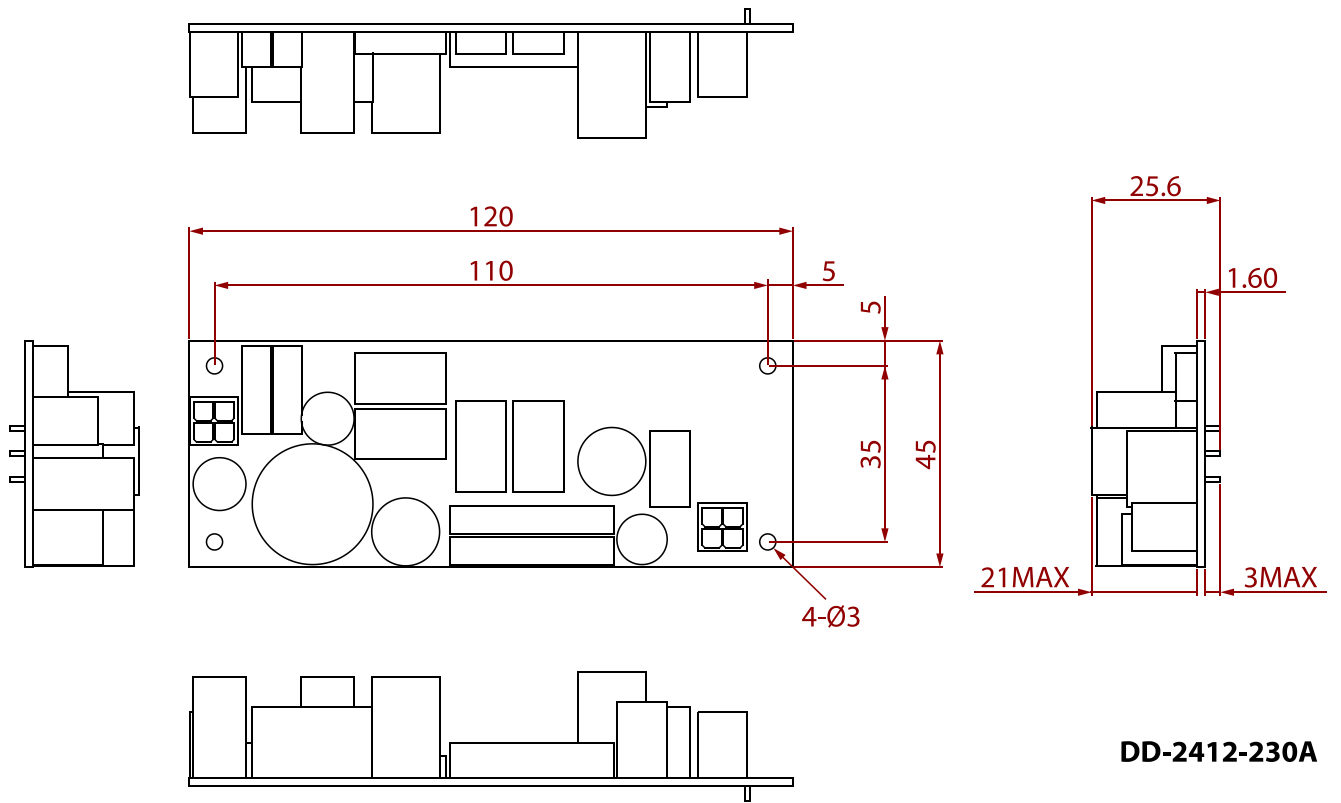
#### Environment

<b>Operating Humidity</b>	10% to 90% RH, Non-Condensing	<b>Operating Temperature</b>	0°C to 50°C
<b>Storage Temperature</b>	-20°C to 70°C	<b>Altitude</b>	0 to 10000ft

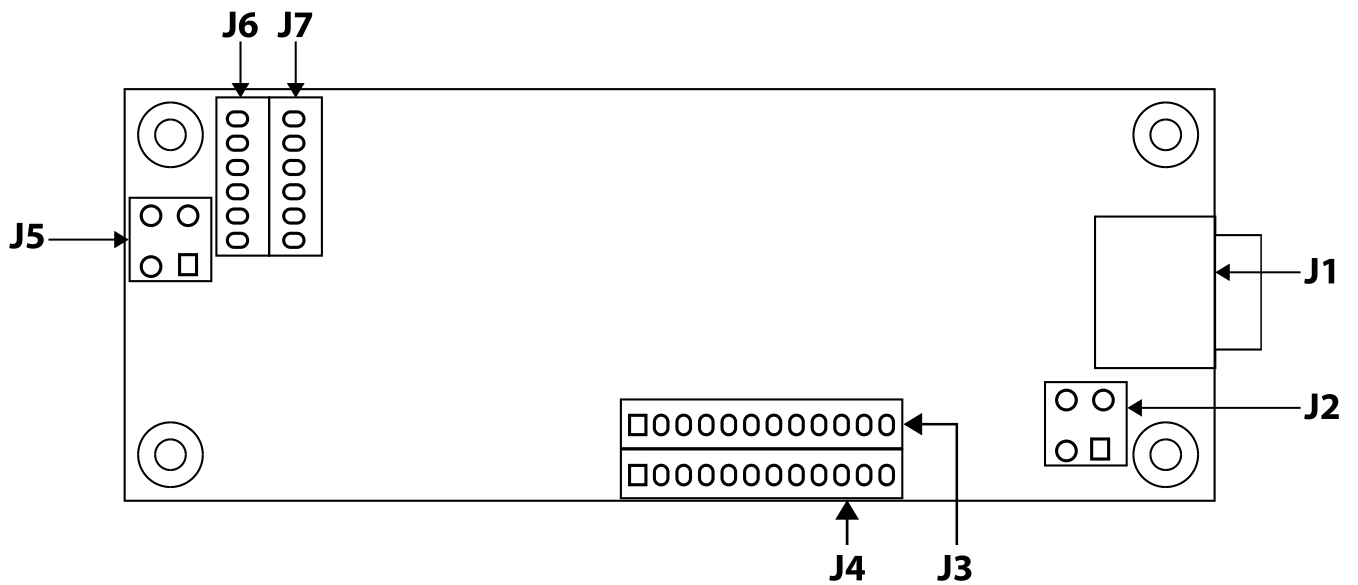
#### Mechanical

**Dimension** 120 x 45 x 25.6 mm

### DIMENSIONS UNIT:MM



**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

**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

**J5:ATX 12V Output Connector**

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

Pin	Symbol
1	GND
2	GND
3	12V
4	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

**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

**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

**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

## NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.