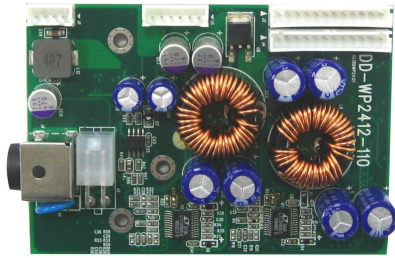
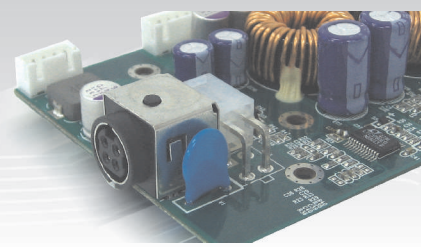


# DC To DC Power Units

# DD-WP2412-175

9V~32V to 24V/12V/5V/175W DC/DC Converter Module

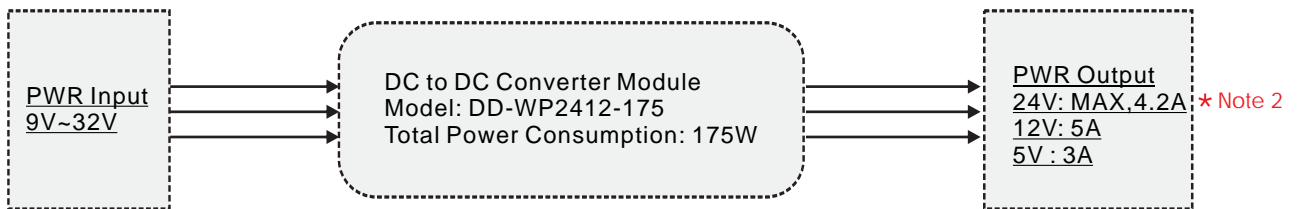


## Features

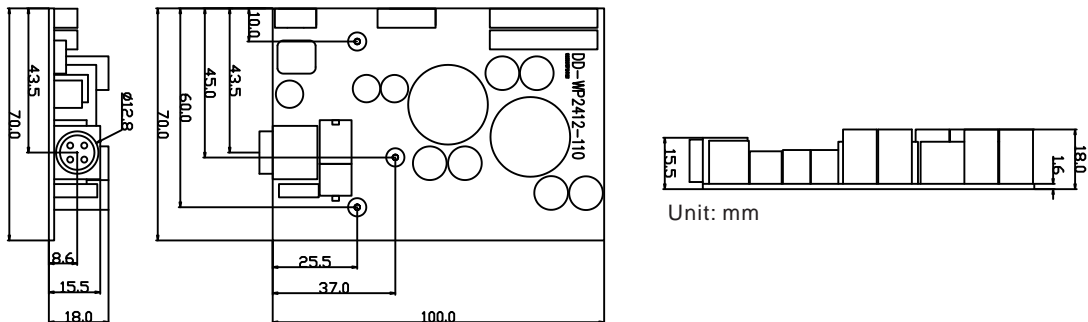
- High efficiency DC-DC Converter
- Wide input voltage range 9V to 32V
- Output over-current protection
- RoHS Compliant
- No minimum load required

## GENERAL

Applicable to general mainboard with 24V/12V/5V DC output



## MECHANICAL



\* Note 1: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

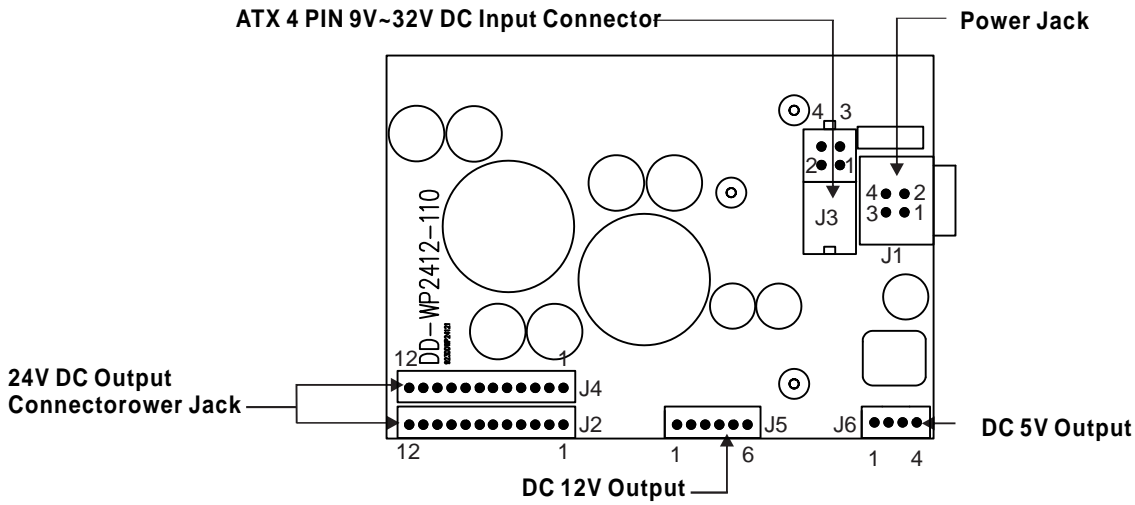
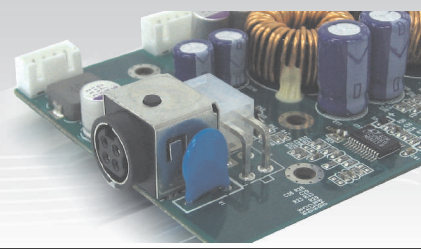
## Specifications

<b>Input Voltage</b>	: 9V~32V DC
<b>Load Range</b>	: 24V: MAX, 4.2A * Note 2 12V: 5A 5V : 3A
<b>Load Regulation</b>	: 24V: Less than $\pm 5\%$ 12V: Less than $\pm 5\%$ 5V : Less than $\pm 5\%$
<b>Ripple And Noise</b>	: 24V: Less than 520mV 12V: Less than 120mV 5V: Less than 50mV
<b>Line Regulation</b>	: Less than $\pm 1\%$ at rated load with 9V~32V input voltage
<b>Efficiency</b>	: The efficiency is higher than 85%
<b>Altitude</b>	: 0 to 10000ft
<b>Protection</b>	: The power supply will protect itself against short circuit or over load condition, and will return to normal after wrong condition is removed
<b>Operating Temp.</b>	: 0 $\approx$ 50 $^{\circ}$ C
<b>Storage Temp.</b>	: -20 $\approx$ +70 $^{\circ}$ C
<b>Humidity</b>	: 30~90% non-condensing
<b>Dimension</b>	: 100 x 70 x 23 mm

# DC To DC Power Units

# DD-WP2412-175

9V~32V to 24V/12V/5V/175W DC/DC Converter Module



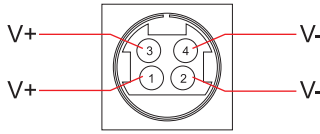
\* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

## Pin Assignment:

### J1: Power Jack

Connector Type : Din 4p Dip Power Jack QuickLock

Pin	Symbol
1	DC 9V~32V Input
2	GND
3	DC 9V~32V Input
4	GND



### J2, J4: 24V DC Output Connector Power Jack

Connector Type : 2.5mm 1x12 Pin Header DIP 180°

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

### J3: ATX 4 PIN 8~32V DC Input Connector

Connector Type : Molex 87427-044 4.20mm Pitch Mini-Fit Jr.™ Header ,Dual Row

Pin	Symbol
1	GND
2	GND
3	DC 9V~32V Input
4	DC 9V~32V Input

### J5: DC 12V Output

Connector Type : 1x6 pin P:2.50mm DIP 180°

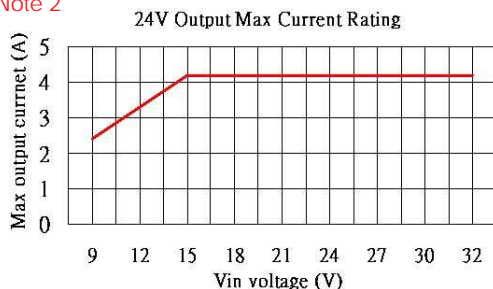
Pin	Symbol
1	GND
2	GND
3	GND
4	DC +12V
5	DC +12V
6	DC +12V

### J6: DC 5V Output

Connector Type : 1x6 pin P:2.50mm DIP 180°

Pin	Symbol
1	GND
2	GND
3	DC +5V
4	DC +5V

\* Note 2



Rev.	Reasons	Revised Date
1.2	Spec change	Jun-30-09
1.3	Spec change	Jul-22-10
1.4	Spec change	Jan-17-13