

IRTPS

Isolated 9~36V to 12V 100W DC/DC Converter Module



KEY FEATURES

- High efficiency DC to DC Converter Module
- Low inrush current
- Output over-current protection
- Wide range voltage input
- Optional Ignition Control Function



SPECIFICATIONS

System Specification

Input Voltage	9V to 36V DC	Load Range	12V 8.3A
Power Consumption	100W	Isolation	Yes
Ripple And Noise	Less than 120mV	Line Regulation	Less than $\pm 1\%$ at rated 9~36V input voltage
Load Regulation	Less than $\pm 5\%$	Efficiency	Up to 90% (Full loading)
Protection	OCP protection OVP protection		

Certification

Certification CE, FCC

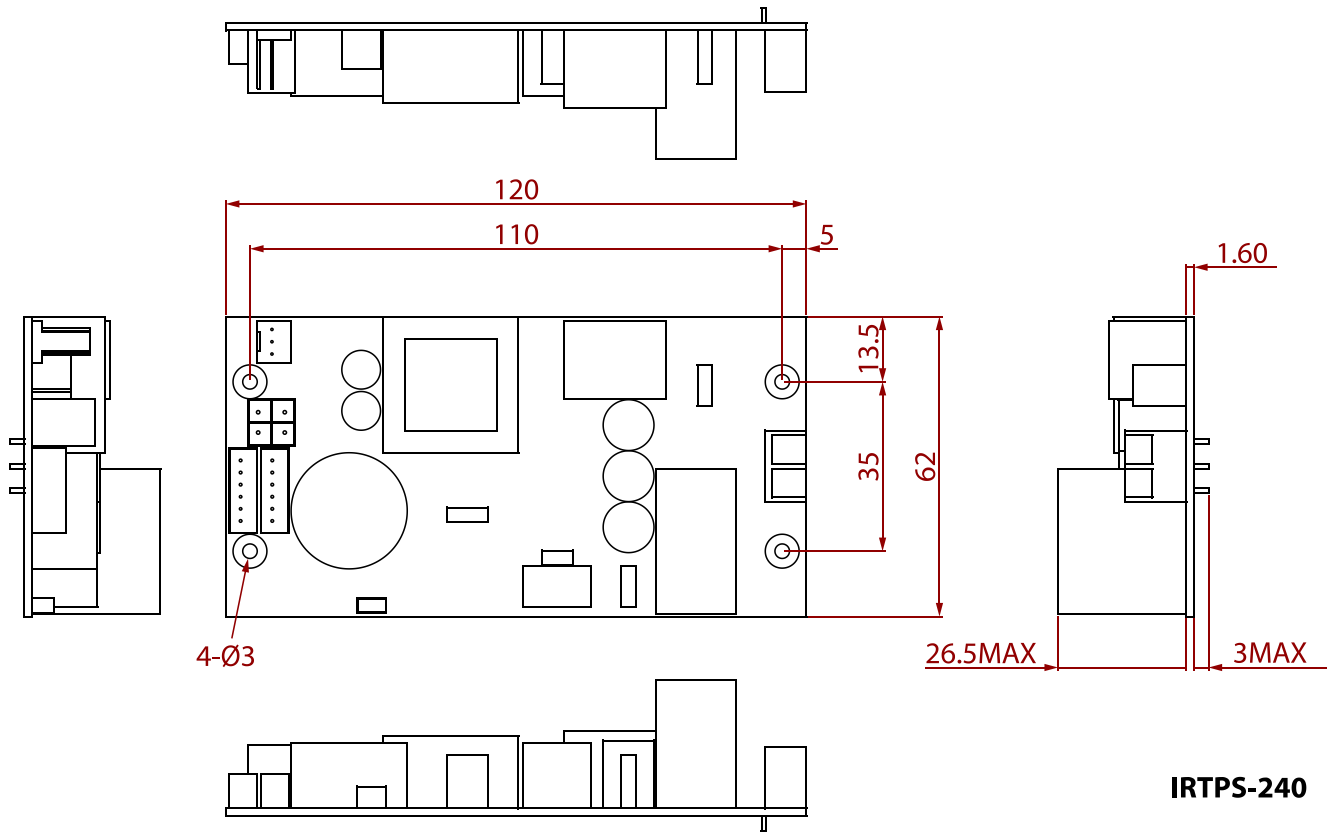
Environment

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

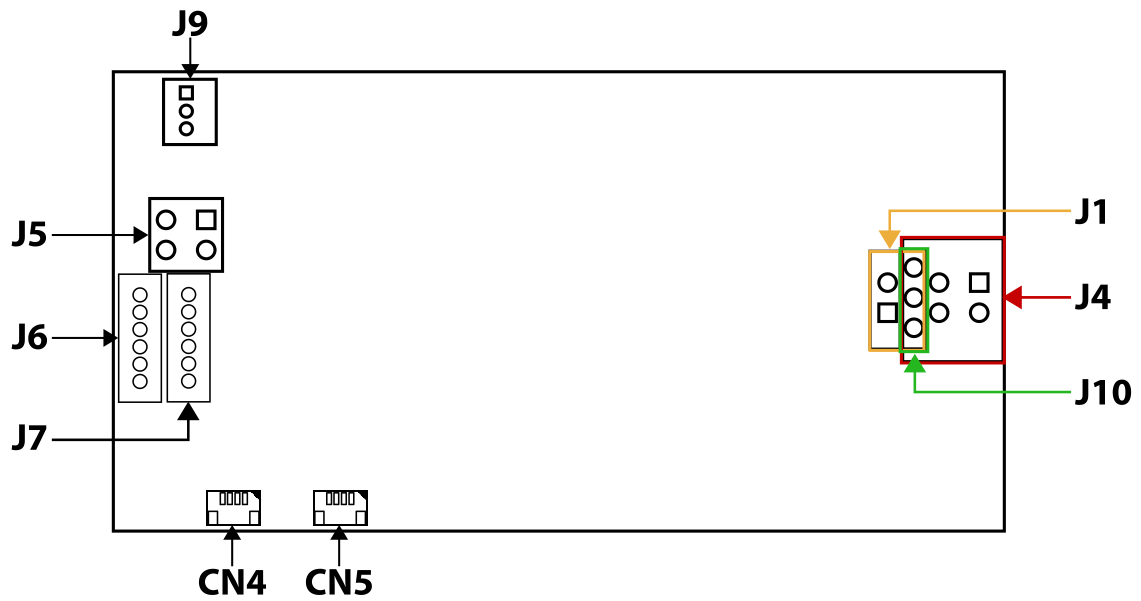
Mechanical

Dimension 120 x 62 x 31.1 mm

DIMENSIONS UNIT:MM



Pin Assignment:



J1: input Connector

Connector Type: 4p P: DT-29-B01W-02 2pin

Pin	Symbol
1	Vin+
2	Vin-

J5: DC 12V output 1

Connector Type: 4p P:4.2mmDIP180°Molex87427

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

J4:

Connector Type: 4p P: Molex-87427-044

Pin	Symbol
1	Vin-
2	Vin-
3	Vin+
4	Vin+

J6: DC 12V output 2

Connector Type: 1*6p P:2.50mm DIP 180°

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

J10:

Connector Type: 4p P: Terminal Block 3P DT-29

Pin	Symbol
1	Vin+
2	Vin-
3	VIN- _GND(ING _GND)

J7: DC 12V output 3

Connector Type: 1*6p P:2.50mm DIP 180°

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

CN4: For Bottom Ctrl

Pin	Symbol
1	BT IN
2	BT OUT
3	PWR
4	GND

J9: DC 12V output 4

Connector Type: 3P 2.54mm DIP 180°

Pin	Symbol
1	GND
2	+12V
3	X

CN5: For Ctrl MCU

Pin	Symbol
1	+5V
2	TX
3	RX
4	GND

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.