# IRT40C

# Isolated 10~60V to 12V 40W DC/DC Converter Module



## **KEY FEATURES**

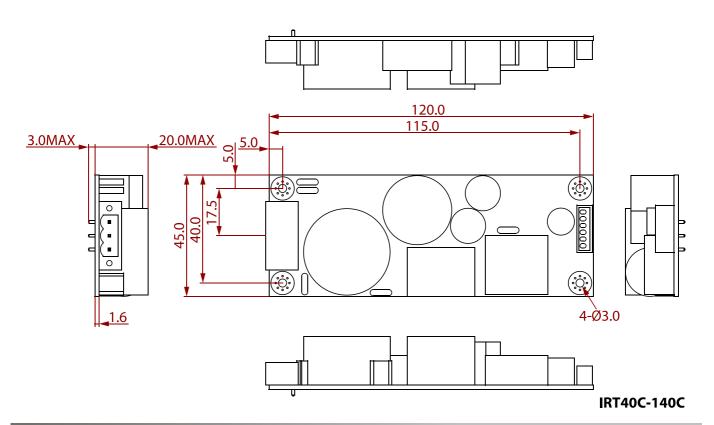
- High efficiency DC-DC Converter
- Low inrush current
- Output over-current protection
- Wide range voltage input
- Optional Ignition Control Function



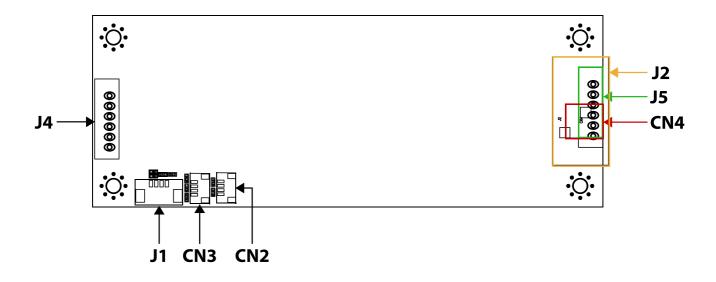
## **SPECIFICATIONS**

System Specificat	ion		
Input Voltage	10V to 60V DC	Load Range	12V 3.3A
Power Consumption	40W	Isolation	Yes
Ripple And Noise	Less than 120mV	Line Regulation	Less than ±1% at rated 10~60V input voltage
Load Regulation	Less than ±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 45 x 24.6 mm		

# **DIMENSIONS** UNIT:MM



# Pin Assignment:



# J1: Debug port

1x4p/P1.25/WHITE-SMD-180

Pin	Symbol
1	+V5A
2	GND
3	C2CK
4	C2D

# **J2: Input Connector**

2EHDRM-03P/DIP

Pin	Symbol
1	VIN+
2	VIN-
3	GND
4	N/A
5	N/A

## J4: DC 12V output

1x6p/P2.5/WHITE-DIP-180

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

## **J5: Input Connector**

P: 2.5mm

Pin	Symbol
1	IĞN_GND
2	VIN-
3	VIN-
4	VIN-
5	VIN+
6	VIN+

#### CN2:

1x4p/P1.0/WHITE-SMD-180

Pin	Symbol
1	+V5A
2	TX
3	RX
4	GND

### CN3:

1x4p/P1.0/WHITE-SMD-180

Pin	Symbol
1	BT_IN
2	BT_OUT
3	PWR
4	GND

### CN4:

1x2p/P3.96/WHITE-DIP-180

Pin	Symbol
1	VIN-
2	VIN+

### 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.