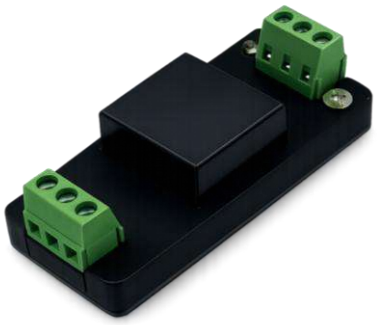
EP101A Series

• *10W Max.*

DC/DC Converter



Features

- Industry-Standard Footprint
- Multiple Mounting Options: Board, Chassis, or DIN Rail
- Industrial Operating Temp -40~+85°C
- Protections :
  Short circuit / Over voltage / Over current
- Wide 4:1 Input Voltage Range
- High Efficiency up to 88%
- MTBF > 100,000 hours

EP101A XX - S YY- P

XX: DC input voltage, i.e. 24 is 24VDC
S: Output range
YY: Specified output voltage, i.e. 12 is 12VDC
P: Mounting Style
-D: DIP
-T: Chassis mount
-R: DIN rail

General Specification

OUTPUT

MODEL No.	MAX. OUTPUT POWER (W)	INPUT VOLTAGE		OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
		Type(Vdc)	Range(Vdc)						
EP101A24-S3	7.92W	24V	9~36V	3.3V	0A	2.4A	± 1.5%	± 1%	80mV
EP101A24-S5	10W	24V	9~36V	5V	0A	2A	± 1.5%	± 1%	80mV
EP101A24-S9	10W	24V	9~36V	9V	0A	1.11A	± 1.5%	± 1%	80mV
EP101A24-S12	10W	24V	9~36V	12V	0A	0.83A	± 1.5%	± 1%	80mV
EP101A24-S15	10W	24V	9~36V	15V	0A	0.66A	± 1.5%	± 1%	80mV
EP101A24-S24	10W	24V	9~36V	24V	0A	0.41A	± 1.5%	± 1%	80mV
EP101A48-S3	7.92W	48V	18-75V	3.3V	0A	2.4A	± 1.5%	± 1%	80mV
EP101A48-S5	10W	48V	18-75V	5V	0A	2A	± 1.5%	± 1%	80mV
EP101A48-S12	10W	48V	18-75V	12V	0A	0.83A	± 1.5%	± 1%	80mV
EP101A48-S15	10W	48V	18-75V	15V	0A	0.66A	± 1.5%	± 1%	80mV
EP101A48-S24	10W	48V	18-75V	24V	0A	0.41A	± 1.5%	± 1%	80mV

NOTE:

1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.

2 : Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.

3 : Max. Power (W) ≥ Vo x Io

INPUT

• Input Range	24VDC	9 to 36VDC
	48VDC	18 to 75VDC
• Input Current	24VDC	≤ 0.56A
	48VDC	≤ 0.28A
• CTRL	Module ON	10~12VDC
	Module OFF	0~1.2VDC
• No load power		≤ 0.12W

OUTPUT

• Maximum Capacitive Load	3.3, 5VDC	2200uF (max)
	9VDC	680uF (max)
	12VDC	470uF (max)
	15VDC	330uF (max)
	24VDC	100uF (max)
• Load Range	Output Voltage	± 1.5%

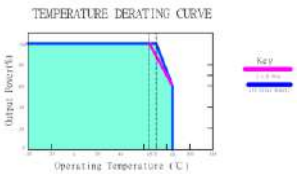
PROTECTION

• Short Circuit Protection	Auto Recovery
• Over Voltage Protection	Auto Recovery add Latch-off
• Over Current Protection	Auto Recovery

ENVIRONMENTAL

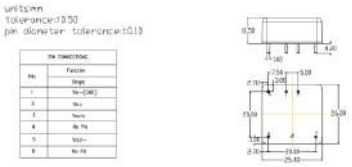
• Operating Temperature	-40 to 85°C
• Storage Temperature	-55 to 125°C
• Operating Humidity	10% to 90%
• Storage Humidity	5% to 95%

DERATING CURVE

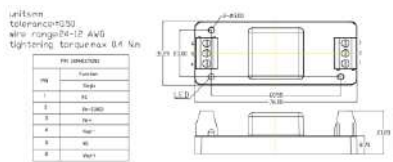


MECHANICAL

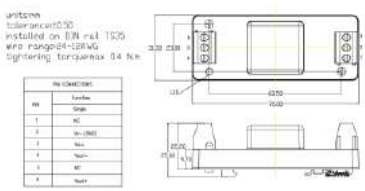
DIP



Chassis



DIN Rail



- Mechanical Size: 25.4L x 25.4W x 11.7H (mm) for DIP
  76L x 31.5W x 21.2H (mm) for Chassie
  76L x 31.5W x 25.8H (mm) for DIN Rail
- Weight: 12g for DIP
  35g for Chassie
  53g for DIN Rail

SAFETY

- Complied with EN/BS EN 62368-1

Above safety certificates are for reference only. Please contact our sales department for more details.