

IDC72-24-5S12D
72 Watts

Key Features:

- 72W convection cooling
- Wide range DC input, 12V and 24V
- Triple outputs, 5V/12V/-12V
- Compact design, 3x5"
- Rated at 50°C
- Over voltage, short circuit / overload protection
- MTBF > 260,000 hrs. per MIL - Handbook 217F
- Specially designed for application requiring 12V or 24V DC input

The **IDC72-24-5S12D** is an open frame 10 ~ 30 VDC DC/DC converter that can handle both 12V and 24V DC inputs. It features three DC

outputs (5V/12V/-12V), 72 watts output rating and no audible noise.

Input:

Input Type	Input Voltage	Input Current	Inrush Current
DC	10 – 30 VDC	13A @ 10 VDC	25A @ 12 VDC

Output Specification

Outputs	+5V	+12V	-12V
Minimum Output Current	0A	0A	0A
Rated Output Current	10A	1.5A	0.3A
Maximum Output Current	14A	3A	-
Line Regulation	2%	2%	2%
Load Regulation	3%	8%	5%
Ripple and Noise (peak to peak)	50 mV	100 mV	100 mV
Efficiency	> 70% measured at 24 VDC and rated load		
MTBF	262,813 hours at 50 °C		
Output Power Rating	Continuous output 70W with 42 CFM forced air required. Continuous output 50W without fan.		

Interface Signals and Internal Protection

Overload Protection	Built-in over voltage protection. Automatic recovery upon of overload or short circuit condition.
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Safety Approvals, EMI and EMS specification

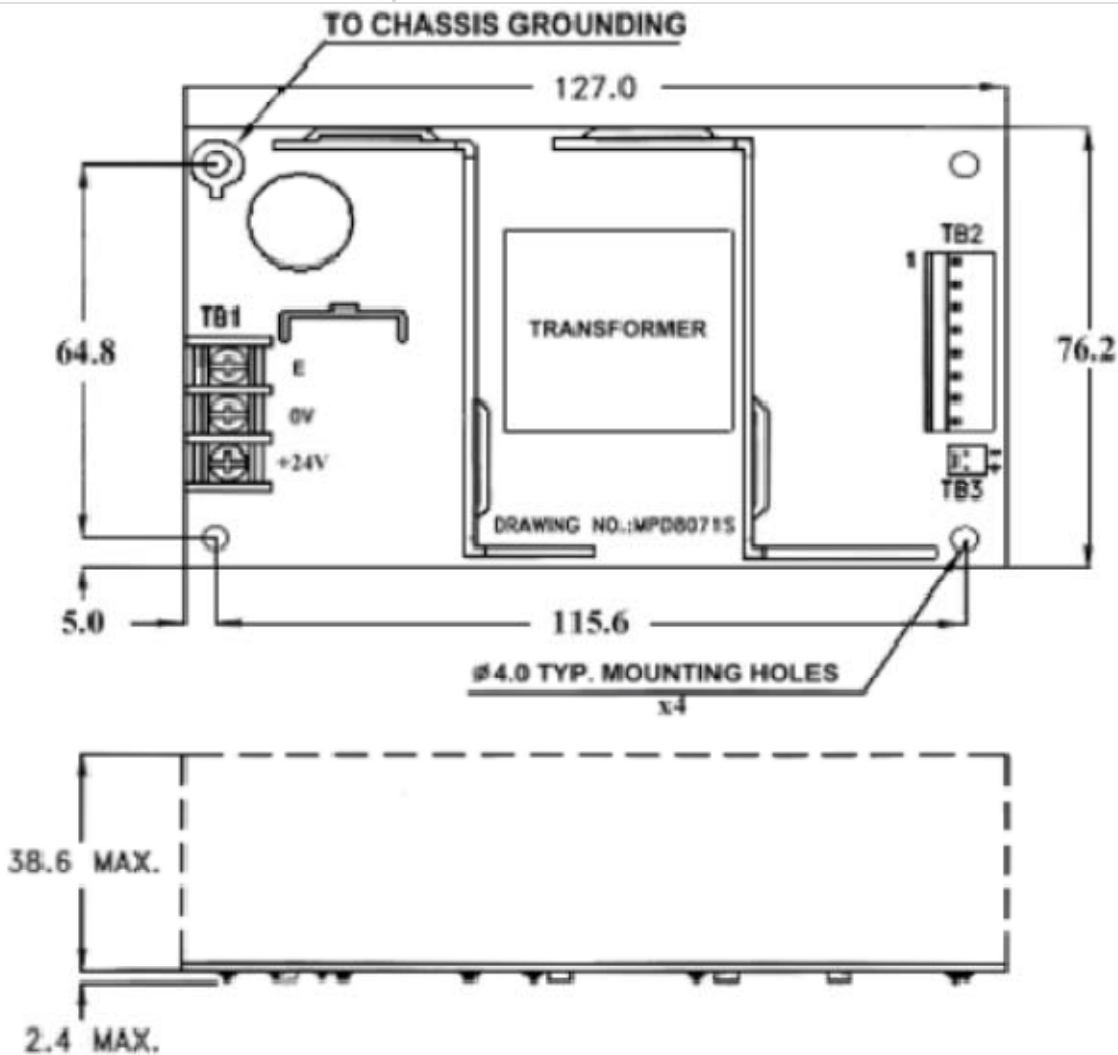
Safety	Designed to meet	UL 1950, CSA 22.2 No. 234, VDE EN 60950
EMS	Designed to meet	IEC-801-2 8KV air discharge, IEC-801-3 3V/M, IEC-801-4 2KV
Radiation/Conduction	Designed to meet	FCC docket 20780 curve "B", EN 55022 class "B"

Environment Specification

Operating Temperature	0~50 °C
Storage Temperature	-40~85°C
Altitude (max)	up to 10,000 ft

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Dimension

Width x Length x Height 3.0 x 5.0 x 1.66" (inch)


Dimensions

Dimensions shown in mm as above; Tolerance specified is + -0.4mm.

Connectors

TB1—DC input : 3 positions terminal block

TB2—DC output : Molex 5273-08A or equivalent.

TB3—for FAN use only : Molex 5045-02A or equivalent.

DC output pin assignment

Pin 1. +5V 5. GND

2. +5V 6. GND

3. +5V 7. +12V

4. GND 8. -12V