

AC-DC Power Supplies



TOP 200 Series, 200 Watt

www.powersolve.co.uk

Features

- Highest power density in 127 x 76.2mm footprint
- Supplies 200W with convection cooling
- High efficiency of 90% typical
- Operating temperature range of -25°C to +70°C
- Compliance with EN 61000-3-2
- Low leakage current
- Safety class I and class II



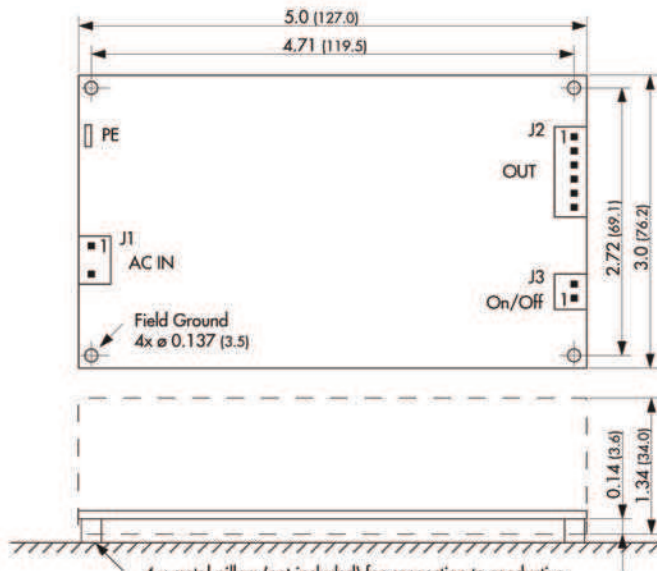
Electrical Specification

| | |
|-----------------------------|---|
| Input voltage range | 85-264Vac with derating at low mains input |
| Input Frequency | 47-63Hz |
| EMI emission | EN 55022 class B, harmonic current EN 61000-3-2 class A |
| EMI immunity | EN 61000-4-2, -3, -4, -5, -6, -11 |
| Output current limitation | 120-150% of Iout max. |
| Short Circuit Protection | foldback, automatic recovery |
| Overvoltage protection | >150% of Vout nom. (12 & 15V models), >125% of Vout nom. (24 & 48V models) |
| Operating Temperature Range | -25°C to +70°C (convection cooling) (derate linearly to 80W at 70°C above 40°C) |
| Safety Approvals | cUL/UL 60950-1, IEC/EN 60950-1 |
| Degree of protection | Class I, class II prepared with second fuse |

Output Voltage and Current Ratings

| MODEL | OUTPUT POWER | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE | LINE REG. | LOAD REG. | EFFICIENCY |
|-------------|--------------|----------------|----------------|------------------|-----------|-----------|------------|
| TOP 200-112 | 200W | 12VDC | 16A | 120mV pk-pk max. | 1.0% | 1.0% | 90% |
| TOP 200-115 | 200W | 15VDC | 13A | 120mV pk-pk max. | 1.0% | 1.0% | 90% |
| TOP 200-124 | 200W | 24VDC | 8.3A | 120mV pk-pk max. | 1.0% | 1.0% | 92% |
| TOP 200-148 | 200W | 48VDC | 4.2A | 150mV pk-pk max. | 1.0% | 1.0% | 92% |

Mechanical & Connection Details



Dimensions in Inches (mm)

J1 Mating connector: Molex 09-50-3031
Crimp Terminal: Molex 08-52-0072

| Pin | Function |
|-----|---------------|
| 1 | AC in Live |
| 2 | AC in Neutral |

PE Mating connector: TAB-6.3 (1/4")
Protective Earth if used as safety class 1 unit

J2 Mating Connector: Molex 09-50-3061
Crimp Terminal: Molex 08-52-0072

| Pin | SINGLE OUTPUT |
|-----|---------------|
| 1 | +Vout |
| 2 | +Vout |
| 3 | +Vout |
| 4 | -Vout |
| 5 | -Vout |
| 6 | -Vout |

J3 Mating Connector: Molex 22-01-2025
Crimp Terminal: 08-50-0032

| Pin | Function |
|-----|----------|
| 1 | Contact |
| 2 | Current |

Pin 1 connected to secondary ground will turn unit OFF
Output voltage may pulse to 20% of nominal output voltage
Pin 2 connected to ext. current source of 10mA will turn unit OFF
No pulsing of output voltage
Pin 1 & 2 open circuit: unit is ON