



MT5

5 WATT DC/DC CONVERTER SINGLE & MULTIPLE OUTPUTS



FEATURES

- ▶ 5 SIDED METAL CASE
- ▶ WIDE INPUT RANGE
- ▶ HIGH EFFICIENCY AND RELIABILITY,
UP TO 87%
- ▶ HIGH I/O ISOLATION 1500VDC
- ▶ INPUT FILTER TO MEET EN 55022-A,
FCC-A, CISPR 22-2 CLASS A
- ▶ NO DERATING TO 71°C
- ▶ LOW OUTPUT RIPPLE AND NOISE
- ▶ SHORT CIRCUIT PROTECTION
- ▶ DIRECT PCB-SOLDERING
- ▶ INDUSTRY STANDARD PINOUT (IC-24P)
- ▶ LOW PROFILE, 10mm (0.39") HEIGHT
- ▶ FIVE YEAR WARRANTY

EMI

Complys with: **CISPR CLASS A**

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

INPUT SPECIFICATIONS

Input Voltage Range..... 2:1 Wide Range Input

OUTPUT SPECIFICATIONS

Ripple Noise..... 150 mVp-p (DC to 20MHZ)
 Line Regulation..... ±0.5% max.
 Line Filter..... Built-in
 Load Regulation..... Single: ±1.0% max. (10% ~ 100%)
 Dual: ±3.0% max. (10% ~ 100%)

GENERAL SPECIFICATIONS

Isolation Voltage
 Primary to Secondary..... 1500 VDC
 Primary to Case..... 750 VDC
 Secondary to Case..... 750 VDC
 MTBF..... >1,000,000 hours
 Isolation Resistance..... INPUT-OUTPUT-CASE 1000M-ohms min.
 (Measured at 500 VDC)
 Short-Circuit Protection..... Continuous

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -25°C ~ +71°C
 Temperature Coefficient..... ±0.05% / °C
 Humidity..... 30%~95% RH
 Storage Temperature..... -25°C ~ +85°C

PHYSICAL SPECIFICATIONS

Case Material.....Nickel-Plated Steel
 Dual In-Line Pin Configuration

Series

| MODEL | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT CURRENT | EFFICIENCY |
|-------------------|----------------------|----------------|----------------|---------------|------------|
| MT5-2405SI | 24 VDC (18 ~ 36V) | 5.1 VDC | 1000mA | 16mA | 83% |
| MT5-2412SI | | 12 VDC | 500mA | 22mA | 86% |
| MT5-2412WI | | ±12 VDC | ±250mA | 33mA | 85% |
| MT5-2415WI | | ±15 VDC | ±200mA | 35mA | 86% |
| MT5-4805SI | 48 VDC (36 ~ 72V) | 5.1 VDC | 1000mA | 10mA | 84% |
| MT5-4812SI | | 12 VDC | 500mA | 12mA | 87% |
| MT5-4812WI | | ±12 VDC | ±250mA | 14mA | 87% |
| MT5-4815WI | | ±15 VDC | ±200mA | 12 mA | 87% |

SINGLE OUTPUT

| | |
|--------|------------|
| 2, 3 | INPUT - V |
| 22, 23 | INPUT + V |
| 9, 10 | NC |
| 11, 15 | NC |
| 16 | OUTPUT - V |
| 14 | OUTPUT + V |

DUAL OUTPUT

| | |
|--------|------------|
| 2, 3 | INPUT - V |
| 22, 23 | INPUT + V |
| 11 | OUTPUT - V |
| 14 | OUTPUT + V |
| 9, 16 | COMMON |



NOTE:

All specifications typical and nominal / full load and 25°C unless otherwise noted.
 Avoid sustained operation in overload or dead short conditions.
 Specifications subject to changes without notice.

Dimensions in mm