



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..... $\pm 0.5\%$ max.
 Line Filter..... Built-in
 Load Regulation..... Single: $\pm 1.0\%$ max. (10% ~ 100%)
 Dual: $\pm 3.0\%$ 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 $-25^{\circ}\text{C} \sim +71^{\circ}\text{C}$
 Temperature Coefficient..... $\pm 0.05\% / ^{\circ}\text{C}$
 Humidity..... 30%~95% RH
 Storage Temperature..... $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$

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