

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

Complies 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