

# MT10

## 10 WATT DC/DC CONVERTER, SINGLE & MULTIPLE OUTPUTS



### FEATURES

- ▶ **RATED 15W AT 24VDC & 48VDC INPUT**
- ▶ **SINGLE AND DUAL OUTPUTS**
- ▶ **HIGH EFFICIENCY AND RELIABILITY**
- ▶ **HIGH I/O ISOLATION 1500VDC**
- ▶ **INTERNAL EMI FILTER**
- ▶ **LOW OUTPUT RIPPLE AND NOISE**
- ▶ **SHORT CIRCUIT PROTECTION**
- ▶ **DIRECT PCB-SOLDERING**
- ▶ **INDUSTRY STANDARD PINOUT (IC-24P)**
- ▶ **LOW PROFILE, 10mm (0.39") HEIGHT**
- ▶ **TWO YEAR WARRANTY**

### EMI

Complys with: **CISPR CLASS A**

### ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load

### INPUT SPECIFICATIONS

Input Voltage Range .....9-18 VDC MT10 - 12  
 18-36 VDC MT10 - 24  
 36-72 VDC MT10 - 48

### OUTPUT SPECIFICATIONS

Output Voltage Accuracy..... ±0.5%  
 Over-Current Protection.....Built-in  
 Ripple Noise ..... 150 mVp-p (DC to 20MHZ)  
 Line Regulation.....±0.5% max.  
 ±10% max. (MT10 - \*\*03S)  
 Line Filter..... Built-in  
 Load Regulation.....±1.0% max. (min-max load) MT10 Single  
 ±3.0% max. (min-max load) MT10 Dual  
 ±5.0% max. (min-max load) MT10\*\*\*03S

### GENERAL SPECIFICATIONS

Isolation Voltage  
 Input-Output..... DC 1500V/ 1min. MT10-48  
 Input-Output..... DC 750V/ 1min. MT10-12, MT10-24  
 MTBF..... >1.2 million hours  
 Isolation Resistance..... Input-Output-Case1000M-ohms max.  
 (Measured at 500 VDC)  
 Short-Circuit Protection.....20mS max.

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature ..... -25°C ~ +75°C (Case not to exceed 100°C)  
 Temperature Coefficient.....0.05%/°C  
 Humidity..... 30%-95% RH  
 Storage Temperature..... -30°C~+100°C

### PHYSICAL SPECIFICATIONS

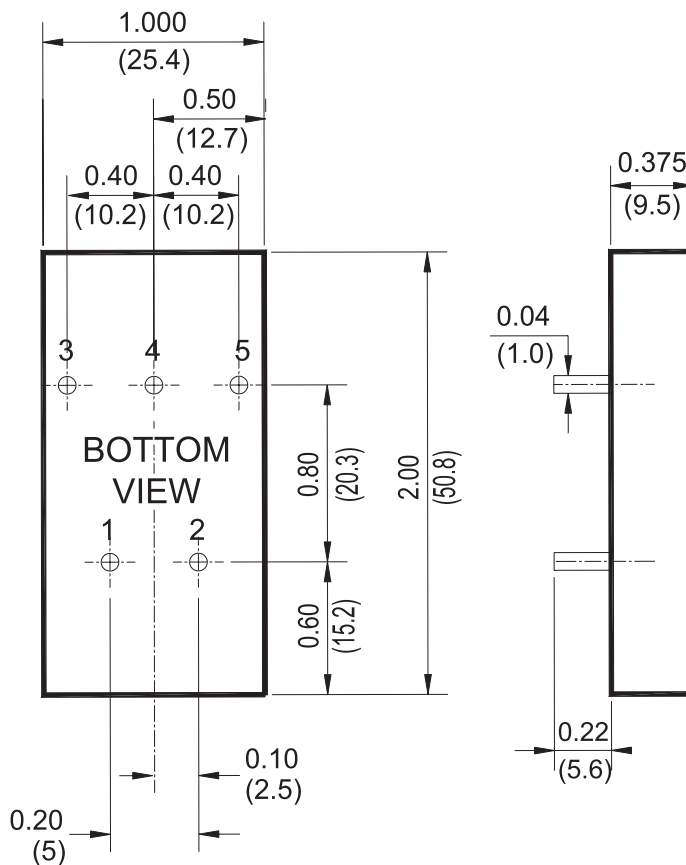
Case Material.....Nickel-Plated Steel  
 Dual In-Line Pin Configuration

# Series

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		EFFICIENCY AT 100% LOAD (TYP)
			MIN.	MAX.	
MT10-1203S	12 VDC (9 ~ 18V)	3.3 VDC	240mA	2400mA	76%
MT10-1205S		5 VDC	180mA	1800mA	77%
MT10-1212S		12 VDC	85mA	850mA	82%
MT10-1215S		15 VDC	65mA	650mA	80%
MT10-1212W		±12 VDC	±82mA	±410mA	80%
MT10-1215W		±15 VDC	±60mA	±330mA	80%
MT10-2403S	24 VDC (18 ~ 36V)	3.3 VDC	280mA	2800mA	78%
MT10-2405S		5 VDC	240mA	2400mA	78%
MT10-2412S		12 VDC	125mA	1250mA	86%
MT10-2415S		15 VDC	125mA	1000mA	84%
MT10-2412W		±12 VDC	±120mA	±600mA	83%
MT10-2415W		±15 VDC	±100mA	±500mA	84%
MT10-4805S	48 VDC (36 ~ 72V)	5 VDC	240mA	2400mA	82%
MT10-4812S		12 VDC	125mA	1250mA	85%
MT10-4815S		15 VDC	100mA	1000mA	84%
MT10-4812W		±12 VDC	±120mA	±600mA	84%
MT10-4815W		±15 VDC	±100mA	±500mA	85%

Also available in 9-36V & 18-72V Input

PIN-OUT		
PIN	SINGLE	DUAL
1	+VIN	+VIN
2	-VIN	-VIN
3	+VOUT	+VOUT
4	NO PIN	COMMON
5	-VOUT	-VOUT



**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.

