AM4T Series



4 watt dc-dc converters

- 24PIN DIP PACKAGE
- WIDE 2:1 INPUT RANGE
- HIGH EFFICIENCY UP TO 81%
- LOW PROFILE METAL PACKAGE
- INPUT/OUTPUT ISOLATION: 1500 & 3500VDC
- CONTINUOUS SHORT CIRCUIT PROTECTION
- OPERATING TEMPERATURE: -40°C TO +85°C
- PIN-COMPATIBLE WITH MULTIPLE MANUFACTURERS

GENERAL DESCRIPTION

Our AM4T series is a family of cost effective 4W single and dual outputs DC-DC converters. Input voltages of 12, 24 & 48VDC with output voltages of 3.3, 5, 7.2, 9, 12,

15, 18, 24, \pm 3.3, \pm 5, \pm 7.2, \pm 9, \pm 12, \pm 15, \pm 18 & \pm 24VDC. Full SMD-design and a 100% production test of parameters ensures a high reliability in this product.

ELECTRICAL SPECIFICATIONS

Specifications typical at +25°C, nominal input voltage, rated output current unless otherwise specified

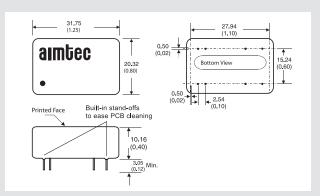
Input Specifications:		General Specifications:	
Voltage range	12VDC, 9~18VDC 24VDC, 18~36VDC 48VDC, 36~72VDC	Efficiency Switching Frequency	73% to 81% 250KHz, typ. 100% load
Filter	p (Pi) Network	Output Specifications: Voltage accuracy	±1%, max.
Isolation Specifications: Rated voltage (60 sec) Resistance Capacitance	1500 & 3500VDC > 1000MOhm 120pF, typ.	Voltage balance (Dual Output) Ripple & noise (at 20MHz BW) Short circuit protection Short circuit restart Line voltage regulation	±1% 60mVp-p, max. Continuous Automatic ±0.5%, max.
Environmental Specifications Operating temperature (ambient)	-40°C +85°C	Load voltage regulation Temperature coefficient	±0.5%, max. ±0.02%/°C, typ.
Storage temperature Case temperature	-55°C +125°C +100°C, max.	Physical Specifications: Dimensions	31.75x20.32x10.16mm
Derating Humidity (non-condensing) Cooling	None required Up to 90% Free-air Convection	Weight Case material	1.25x0.8x0.4inches 19g Nickel-Coated Copper

MTBF: > 1,036,000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C)

Specifications are subject to change without notification

AM4T Series

OUTLINE DIMENSIONS & PIN CONNECTIONS



Pin	1500 & 3500VDC			
	Single	Dual		
2	-V Input	-V Input		
3	-V Input	-V Input		
9	N.C	Common		
11	N.C	-V Output		
14	+V Output	+V Output		
16	-V Output	Common		
22	+V Input	+V Input		
23	+V Input	+V Input		

MODELS Single output

Models		T (X) II	0 177	
Isolation 1500VDC	Isolation 3500VDC	Input Voltage	Ouput Voltage	Ouput Current max.
AM4T-1203S	AM4T-1203SH35	9VDC - 18VDC	3.3VDC	1000mA
AM4T-1205S	AM4T-1205SH35		5VDC	800mA
AM4T-1207S	AM4T-1207SH35		7.2VDC	556mA
AM4T-1209S	AM4T-1209SH35		9VDC	444mA
AM4T-1212S	AM4T-1212SH35		12VDC	333mA
AM4T-1215S	AM4T-1215SH35		15VDC	267mA
AM4T-1218S	AM4T-1218SH35		18VDC	222mA
AM4T-1224S	AM4T-1224SH35		24VDC	167mA
AM4T-2403S	AM4T-2403SH35	18VDC - 36VDC	3.3VDC	1000mA
AM4T-2405S	AM4T-2405SH35		5VDC	800mA
AM4T-2407S	AM4T-2407SH35		7.2VDC	556mA
AM4T-2409S	AM4T-2409SH35		9VDC	444mA
AM4T-2412S	AM4T-2412SH35		12VDC	333mA
AM4T-2415S	AM4T-2415SH35		15VDC	267mA
AM4T-2418S	AM4T-2418SH35		18VDC	222mA
AM4T-2424S	AM4T-2424SH35		24VDC	167mA
AM4T-4803S	AM4T-4803SH35	36VDC - 72VDC	3.3VDC	1000mA
AM4T-4805S	AM4T-4805SH35		5VDC	800mA
AM4T-4807S	AM4T-4807SH35		7.2VDC	556mA
AM4T-4809S	AM4T-4809SH35		9VDC	444mA
AM4T-4812S	AM4T-4812SH35		12VDC	333mA
AM4T-4815S	AM4T-4815SH35		15VDC	267mA
AM4T-4818S	AM4T-4818SH35		18VDC	222mA
AM4T-4824S	AM4T-4824SH35		24VDC	167mA

DC-DC CONVERTERS

AM4T Series

MODELS Dual output

Models		Y (Y/)	0 1774	
Isolation 1500VDC	Isolation 3500VDC	Input Voltage	Ouput Voltage	Ouput Current max.
AM4T-1203D	AM4T-1203DH35	9VDC - 18VDC	±3.3VDC	±500mA
AM4T-1205D	AM4T-1205DH35		±5VDC	±400mA
AM4T-1207D	AM4T-1207DH35		±7.2VDC	±278mA
AM4T-1209D	AM4T-1209DH35		±9VDC	±222mA
AM4T-1212D	AM4T-1212DH35		±12VDC	±167mA
AM4T-1215D	AM4T-1215DH35		±15VDC	$\pm 133 \text{mA}$
AM4T-1218D	AM4T-1218DH35		±18VDC	±111mA
AM4T-1224D	AM4T-1224DH35		±24VDC	±83mA
AM4T-2403D	AM4T-2403DH35	18VDC - 36VDC	±3.3VDC	±500mA
AM4T-2405D	AM4T-2405DH35		±5VDC	±400mA
AM4T-2407D	AM4T-2407DH35		±7.2VDC	±278mA
AM4T-2409D	AM4T-2409DH35		±9VDC	±222mA
AM4T-2412D	AM4T-2412DH35	10 / 10 / 10 / 10	±12VDC	$\pm 167 \text{mA}$
AM4T-2415D	AM4T-2415DH35		±15VDC	$\pm 133 \text{mA}$
AM4T-2418D	AM4T-2418DH35		±18VDC	±111mA
AM4T-2424D	AM4T-2424DH35		±24VDC	±83mA
AM4T-4803D	AM4T-4803DH35	36VDC - 72VDC	±3.3VDC	±500mA
AM4T-4805D	AM4T-4805DH35		±5VDC	±400mA
AM4T-4807D	AM4T-4807DH35		±7.2VDC	±278mA
AM4T-4809D	AM4T-4809DH35		±9VDC	±222mA
AM4T-4812D	AM4T-4812DH35		±12VDC	$\pm 167 \text{mA}$
AM4T-4815D	AM4T-4815DH35		±15VDC	$\pm 133 mA$
AM4T-4818D	AM4T-4818DH35		±18VDC	±111mA
AM4T-4824D	AM4T-4824DH35		±24VDC	±83mA