AM5T Series



5 watt dc-dc converters

- 24-PIN DIP PACKAGE
- WIDE 2:1 INPUT RANGE
- HIGH EFFICIENCY UP TO 80%
- LOW PROFILE METAL PACKAGE
- INPUT/OUTPUT ISOLATION: 1500 & 3500 VDC
- CONTINUOUS SHORT CIRCUIT PROTECTION
- OPERATING TEMPERATURE: -40°C ... +85°C
- PIN-COMPATIBLE WITH MULTIPLE MANUFACTURERS

GENERAL DESCRIPTION

Our AM5T series is a family of cost effective 5W single and dual output DC-DC converters. Input voltages of 12, 24 & 48 VDC 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

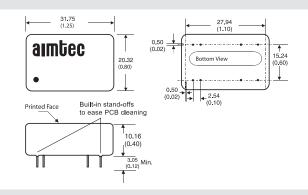
Specifications typical at +25°C, nominal input voltage, rated output current unless otherwise stated.

Input Specifications:		General Specifications:	
Voltage range	12VDC, 9~18 VDC	Efficiency	74% to 80%
	24VDC, 18~36 VDC 48VDC, 36~72 VDC p (Pi) Network	Switching Frequency	250KHz, typ. 100% load
P' 1		Output Specifications:	
Filter		Voltage accuracy	±1% max.
Isolation Specifications:		Voltage balance (Dual Output)	±1%
Rated voltage (60 sec)	1500 & 3500VDC	Ripple & Noise (at 20MHz BW)	60m Vp-p, max.
Resistance	> 1000MOhm Short circuit protection	Continuous	
Capacitance	120pF, typ.	Short circuit restart	Automatic
*		Line voltage regulation	±0.5%, max.
Environmental Specification	s•	Load voltage regulation	±0.5%, max.
Operating temperature (ambien		Temperature coefficient	±0.02% /°C, typ.
Storage temperature	-55°C +125°C	Physical Specifications:	
Case temperature	+100°C, max.	Dimensions	31.75x20.32x10.16mm
Derating	None required		1.25x0.8x0.4 inches
Humidity (non-condensing)	Up to 90%	Weight	19g
Cooling	Free-air convection	Case material	Nickel-Coated Copper

MTBF: > 1,009,000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C) Specifications are subject to change without notification

AM5T Series

OUTLINE DIMENSIONS & PIN CONNECTIONS



Pin	1500 & 3500 VDC			
	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		
Isolation 1500VDC	Isolation 3500VDC	Input Voltage	Ouput Voltage	Ouput Current max.
AM5T-1203S	AM5T-1203SH35	9VDC - 18VDC	3.3VDC	1250mA
AM5T-1205S	AM5T-1205SH35		5VDC	1000mA
AM5T-1207S	AM5T-1207SH35		7.2VDC	694mA
AM5T-1209S	AM5T-1209SH35		9VDC	556mA
AM5T-1212S	AM5T-1212SH35		12VDC	417mA
AM5T-1215S	AM5T-1215SH35		15VDC	333mA
AM5T-1218S	AM5T-1218SH35		18VDC	278mA
AM5T-1224S	AM5T-1224SH35		24VDC	208mA
AM5T-2403S	AM5T-2403SH35	18VDC - 36VDC	3.3VDC	1250mA
AM5T-2405S	AM5T-2405SH35		5VDC	1000mA
AM5T-2407S	AM5T-2407SH35		7.2VDC	694mA
AM5T-2409S	AM5T-2409SH35		9VDC	556mA
AM5T-2412S	AM5T-2412SH35		12VDC	417mA
AM5T-2415S	AM5T-2415SH35		15VDC	333mA
AM5T-2418S	AM5T-2418SH35		18VDC	278mA
AM5T-2424S	AM5T-2424SH35		24VDC	208mA
AM5T-4803S	AM5T-4803SH35	36VDC - 72 VDC	3.3VDC	1250mA
AM5T-4805S	AM5T-4805SH35		5VDC	1000mA
AM5T-4807S	AM5T-4807SH35		7.2VDC	694mA
AM5T-4809S	AM5T-4809SH35		9VDC	556mA
AM5T-4812S	AM5T-4812SH35		12VDC	417mA
AM5T-4815S	AM5T-4815SH35		15VDC	333mA
AM5T-4818S	AM5T-4818SH35		18VDC	278mA
AM5T-4824S	AM5T-4824SH35		24VDC	208mA

AM5T Series

MODELS Dual output

Models				
Isolation 1500VDC	Isolation 3500VDC	Input Voltage	Ouput Voltage	age Ouput Current max.
AM5T-1203D	AM5T-1203DH35	9VDC - 18VDC	± 3.3 VDC	±625mA
AM5T-1205D	AM5T-1205DH35		±5VDC	±500mA
AM5T-1207D	AM5T-1207DH35		± 7.2 VDC	±347mA
AM5T-1209D	AM5T-1209DH35		±9VDC	±278mA
AM5T-1212D	AM5T-1212DH35		±12VDC	±209mA
AM5T-1215D	AM5T-1215DH35		±15VDC	±167mA
AM5T-1218D	AM5T-1218DH35		±18VDC	±139mA
AM5T-1224D	AM5T-1224DH35		±24VDC	±104mA
AM5T-2403D	AM5T-2403DH35		± 3.3 VDC	±625mA
AM5T-2405D	AM5T-2405DH35		±5VDC	±500mA
AM5T-2407D	AM5T-2407DH35		± 7.2 VDC	±347mA
AM5T-2409D	AM5T-2409DH35	18VDC - 36VDC	±9VDC	±278mA
AM5T-2412D	AM5T-2412DH35		±12VDC	±209mA
AM5T-2415D	AM5T-2415DH35		±15VDC	±167mA
AM5T-2418D	AM5T-2418DH35		±18VDC	±139mA
AM5T-2424D	AM5T-2424DH35		±24VDC	±104mA
AM5T-4803D	AM5T-4803DH35		±3.3VDC	±625mA
AM5T-4805D	AM5T-4805DH35		±5VDC	±500mA
AM5T-4807D	AM5T-4807DH35	36VDC - 72VDC	± 7.2 VDC	±347mA
AM5T-4809D	AM5T-4809DH35		±9VDC	±278mA
AM5T-4812D	AM5T-4812DH35		±12VDC	±209mA
AM5T-4815D	AM5T-4815DH35		±15VDC	±167mA
AM5T-4818D	AM5T-4818DH35		±18VDC	±139mA
AM5T-4824D	AM5T-4824DH35		±24VDC	±104mA