AM6T Series



6 watt dc-dc converters

- 24 PIN DIP PACKAGE
- WIDE 2:1 INPUT RANGE
- HIGH EFFICIENCY UP TO 79%
- LOW PROFILE METAL PACKAGE
- INPUT/OUTPUT ISOLATION: 1500 & 3500VDC
- CONTINUOUS SHORT CIRCUIT PROTECTION
- OPERATING TEMPERATURE: -40°C ... +85°C
- PIN-COMPATIBLE WITH MULTIPLE MANUFACTURERS

GENERAL DESCRIPTION

Our AM6T series is a family of cost effective 6W 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, ± 3.3 , ± 5 , ± 7.2 , ± 9 , ± 12 , ± 15 , ± 18 & ± 24 VDC. Full SMD-design and a 100% production test of parameters ensures a high reliability in this product.

ELECTRICAL SPECIFICATIONS

tput Com. Cn Specification typical at +25°C, nominal input voltage, rated output current unless otherwise specified

Input Specifications:	
Voltage	12VDC, 9-18VDC
	24VDC, 18-36VDC
	48VDC, 36-72VDC
Filter	p (Pi) Network
Isolation Specifications:	

Isolation 5	pecifications:
Dated Volta	ga (60 gag)

1500 & 3500VDC Rated Voltage (60 sec) >1000MOhm Resistance Capacitance 120pF, typ.

Environmental Specifications:

Operating temperature (ambient) -40°C ...+85°C Storage temperature -55°C ... +125°C Case temperature +100°C, max. None required Derating Humidity (non-condensing) Up to 90% Free-air Convection Cooling

General Specifications:	
Efficiency	74% to 79%
Switching Frequency	250KHz, typ. 100% load
Output Specifications:	
Voltage accuracy	$\pm 1\%$, max.
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Voltage balance (dual outputs) $\pm 1\%$ Ripple & Noise (at 20MHz BW) 60mVp-p, max.

Short circuit protection Continuous Short circuit restart Automatic $\pm 0.5\%$, max. Line voltage regulation $\pm 0.5\%$, max. Load voltage regulation Temperature coefficient $\pm 0.02\%$ /°C, typ.

Physical Specifications:

Case material

Dimensions 31.75x20.32x10.16mm 1.25x0.80x0.40inches Weight 19g

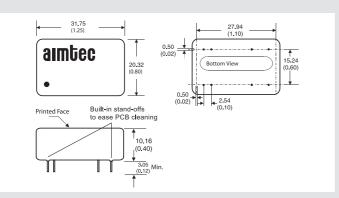
MTBF: > 1,002,000 hrs (MIL-HDBK-217F, Ground Benign, t=+25°C)

Specifications are subject to change without notification

Nickel-Coated Copper

AM6T 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

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Models		Town Voltage	Ouput Voltage	Owner Comment were
Isolation 1500VDC	Isolation 3500VDC	Input Voltage	Ouput voltage	Ouput Current max.
AM6T-1203S	AM6T-1203SH35	19 -0	3.3VDC	1500mA
AM6T-1205S	AM6T-1205SH35	.00	5VDC	1200mA
AM6T-1207S	AM6T-1207SH35		7.2VDC	833mA
AM6T-1209S	AM6T-1209SH35	9VDC - 18VDC	9VDC	667mA
AM6T-1212S	AM6T-1212SH35		12VDC	500mA
AM6T-1215S	AM6T-1215SH35		15VDC	400mA
AM6T-1218S	AM6T-1218SH35		18VDC	333mA
AM6T-1224S	AM6T-1224SH35		24VDC	250mA
AM6T-2403S	AM6T-2403SH35		3.3VDC	1500mA
AM6T-2405S	AM6T-2405SH35		5VDC	1200mA
AM6T-2407S	AM6T-2407SH35		7.2VDC	833mA
AM6T-2409S	AM6T-2409SH35	18VDC - 36VDC	9VDC	667mA
AM6T-2412S	AM6T-2412SH35		12VDC	500mA
AM6T-2415S	AM6T-2415SH35		15VDC	400mA
AM6T-2418S	AM6T-2418SH35		18VDC	333mA
AM6T-2424S	AM6T-2424SH35		24VDC	250mA
AM6T-4803S	AM6T-4803SH35		3.3VDC	1500mA
AM6T-4805S	AM6T-4805SH35		5VDC	1200mA
AM6T-4807S	AM6T-4807SH35		7.2VDC	833mA
AM6T-4809S	AM6T-4809SH35	36VDC - 72VDC	9VDC	667mA
AM6T-4812S	AM6T-4812SH35		12VDC	500mA
AM6T-4815S	AM6T-4815SH35		15VDC	400mA
AM6T-4818S	AM6T-4818SH35		18VDC	333mA
AM6T-4824S	AM6T-4824SH35		24VDC	250mA

SON SON SEPTEDS

AM6T Series

MODELS Dual output

Models		I		
Isolation 1500VDC	Isolation 3500VDC	Input Voltage	Ouput Voltage	Ouput Current max.
AM6T-1203D	AM6T-1203DH35	9VDC - 18VDC	±3.3VDC	±750mA
AM6T-1205D	AM6T-1205DH35		±5VDC	±600mA
AM6T-1207D	AM6T-1207DH35		±7.2VDC	±417mA
AM6T-1209D	AM6T-1209DH35		±9VDC	$\pm 334mA$
AM6T-1212D	AM6T-1212DH35		±12VDC	±250mA
AM6T-1215D	AM6T-1215DH35		±15VDC	±200mA
AM6T-1218D	AM6T-1218DH35		±18VDC	±167mA
AM6T-1224D	AM6T-1224DH35		±24VDC	±125mA
AM6T-2403D	AM6T-2403DH35	18VDC - 36VDC	±3.3VDC	±750mA
AM6T-2405D	AM6T-2405DH35		±5VDC	±600mA
AM6T-2407D	AM6T-2407DH35		±7.2VDC	±417mA
AM6T-2409D	AM6T-2409DH35		±9VDC	±334mA
AM6T-2412D	AM6T-2412DH35	2. 1	±12VDC	±250mA
AM6T-2415D	AM6T-2415DH35	36	±15VDC	±200mA
AM6T-2418D	AM6T-2418DH35		±18VDC	±167mA
AM6T-2424D	AM6T-2424DH35		±24VDC	±125mA
AM6T-4803D	AM6T-4803DH35		±3.3VDC	±750mA
AM6T-4805D	AM6T-4805DH35		±5VDC	±600mA
AM6T-4807D	AM6T-4807DH35		±7.2VDC	±417mA
AM6T-4809D	AM6T-4809DH35	36VDC - 72VDC	±9VDC	$\pm 334mA$
AM6T-4812D	AM6T-4812DH35		±12VDC	±250mA
AM6T-4815D	AM6T-4815DH35		±15VDC	±200mA
AM6T-4818D	AM6T-4818DH35		±18VDC	±167mA
AM6T-4824D	AM6T-4824DH35		±24VDC	±125mA