



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Wide 2:1 input range
- High efficiency up to 85%
- Operating temperature -40°C to + 85°C
- Input / Output Isolation 1500 and 3500VDC
- Pin compatible with multiple manufacturers
- Continuous short circuit protection

Models Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (μF)	Efficiency (%)	Isolation (VDC)
AM6T-1203SZ	9-18	3.3	1400	1000	72	1500
AM6T-1205SZ	9-18	5	1200	1000	77	1500
AM6T-1207SZ	9-18	7.2	830	680	80	1500
AM6T-1209SZ	9-18	9	660	680	78	1500
AM6T-1212SZ	9-18	12	500	330	81	1500
AM6T-1215SZ	9-18	15	400	220	80	1500
AM6T-1218SZ	9-18	18	330	68	79	1500
AM6T-1224SZ	9-18	24	250	68	80	1500
AM6T-2403SZ	18-36	3.3	1400	3300	75	1500
AM6T-2405SZ	18-36	5	1200	1000	80	1500
AM6T-2407SZ	18-36	7.2	830	680	82	1500
AM6T-2409SZ	18-36	9	660	680	80	1500
AM6T-2412SZ	18-36	12	500	330	80	1500
AM6T-2415SZ	18-36	15	400	220	80	1500
AM6T-2418SZ	18-36	18	330	220	80	1500
AM6T-2424SZ	18-36	24	250	220	85	1500
AM6T-4803SZ	36-72	3.3	1400	3300	74	1500
AM6T-4805SZ	36-72	5	1200	2200	80	1500
AM6T-4807SZ	36-72	7.2	830	470	80	1500
AM6T-4809SZ	36-72	9	660	470	82	1500
AM6T-4812SZ	36-72	12	500	330	80	1500
AM6T-4815SZ	36-72	15	400	220	80	1500
AM6T-4818SZ	36-72	18	330	100	80	1500
AM6T-4824SZ	36-72	24	250	100	82	1500
AM6T-1203SH35Z	9-18	3.3	1400	1000	72	3500
AM6T-1205SH35Z	9-18	5	1200	1000	77	3500
AM6T-1207SH35Z	9-18	7.2	830	680	80	3500
AM6T-1209SH35Z	9-18	9	660	680	78	3500
AM6T-1212SH35Z	9-18	12	500	330	81	3500
AM6T-1215SH35Z	9-18	15	400	220	80	3500
AM6T-1218SH35Z	9-18	18	330	68	79	3500
AM6T-1224SH35Z	9-18	24	250	68	80	3500
AM6T-2403SH35Z	18-36	3.3	1400	3300	75	3500
AM6T-2405SH35Z	18-36	5	1200	1000	80	3500
AM6T-2407SH35Z	18-36	7.2	830	680	82	3500
AM6T-2409SH35Z	18-36	9	660	680	80	3500
AM6T-2412SH35Z	18-36	12	500	330	80	3500
AM6T-2415SH35Z	18-36	15	400	220	80	3500
AM6T-2418SH35Z	18-36	18	330	220	80	3500
AM6T-2424SH35Z	18-36	24	250	220	85	3500
AM6T-4803SH35Z	36-72	3.3	1400	3300	74	3500
AM6T-4805SH35Z	36-72	5	1200	2200	80	3500

Models

Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (μF)	Efficiency (%)	Isolation (VDC)
AM6T-4807SH35Z	36-72	7.2	830	470	80	3500
AM6T-4809SH35Z	36-72	9	660	470	82	3500
AM6T-4812SH35Z	36-72	12	500	330	80	3500
AM6T-4815SH35Z	36-72	15	400	220	80	3500
AM6T-4818SH35Z	36-72	18	330	100	80	3500
AM6T-4824SH35Z	36-72	24	250	100	82	3500

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (μF)	Efficiency (%)	Isolation (VDC)
AM6T-1203DZ	9-18	±3.3	±700	±680	72	1500
AM6T-1205DZ	9-18	±5	±600	±330	75	1500
AM6T-1207DZ	9-18	±7.2	±410	±220	80	1500
AM6T-1209DZ	9-18	±9	±330	±220	78	1500
AM6T-1212DZ	9-18	±12	±250	±100	80	1500
AM6T-1215DZ	9-18	±15	±200	±100	78	1500
AM6T-1218DZ	9-18	±18	±160	±100	79	1500
AM6T-1224DZ	9-18	±24	±125	±100	79	1500
AM6T-2403DZ	18-36	±3.3	±700	±1000	75	1500
AM6T-2405DZ	18-36	±5	±600	±680	80	1500
AM6T-2407DZ	18-36	±7.2	±410	±330	82	1500
AM6T-2409DZ	18-36	±9	±330	±330	80	1500
AM6T-2412DZ	18-36	±12	±250	±220	80	1500
AM6T-2415DZ	18-36	±15	±200	±100	80	1500
AM6T-2418DZ	18-36	±18	±160	±68	80	1500
AM6T-2424DZ	18-36	±24	±125	±68	80	1500
AM6T-4803DZ	36-72	±3.3	±700	±1000	74	1500
AM6T-4805DZ	36-72	±5	±600	±680	80	1500
AM6T-4807DZ	36-72	±7.2	±410	±330	80	1500
AM6T-4809DZ	36-72	±9	±330	±330	80	1500
AM6T-4812DZ	36-72	±12	±250	±220	80	1500
AM6T-4815DZ	36-72	±15	±200	±100	80	1500
AM6T-4818DZ	36-72	±18	±160	±47	80	1500
AM6T-4824DZ	36-72	±24	±125	±47	81	1500
AM6T-1203DH35Z	9-18	±3.3	±700	±680	72	3500
AM6T-1205DH35Z	9-18	±5	±600	±330	75	3500
AM6T-1207DH35Z	9-18	±7.2	±410	±220	80	3500
AM6T-1209DH35Z	9-18	±9	±330	±220	78	3500
AM6T-1212DH35Z	9-18	±12	±250	±100	80	3500
AM6T-1215DH35Z	9-18	±15	±200	±100	78	3500
AM6T-1218DH35Z	9-18	±18	±160	±100	79	3500
AM6T-1224DH35Z	9-18	±24	±125	±100	79	3500
AM6T-2403DH35Z	18-36	±3.3	±700	±1000	75	3500
AM6T-2405DH35Z	18-36	±5	±600	±680	80	3500
AM6T-2407DH35Z	18-36	±7.2	±410	±330	82	3500
AM6T-2409DH35Z	18-36	±9	±330	±330	80	3500
AM6T-2412DH35Z	18-36	±12	±250	±220	80	3500
AM6T-2415DH35Z	18-36	±15	±200	±100	80	3500
AM6T-2418DH35Z	18-36	±18	±160	±68	80	3500
AM6T-2424DH35Z	18-36	±24	±125	±68	80	3500
AM6T-4803DH35Z	36-72	±3.3	±700	±1000	74	3500
AM6T-4805DH35Z	36-72	±5	±600	±680	80	3500

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (μF)	Efficiency (%)	Isolation (VDC)
AM6T-4807DH35Z	36-72	±7.2	±410	±330	80	3500
AM6T-4809DH35Z	36-72	±9	±330	±330	80	3500
AM6T-4812DH35Z	36-72	±12	±250	±220	80	3500
AM6T-4815DH35Z	36-72	±15	±200	±100	80	3500
AM6T-4818DH35Z	36-72	±18	±160	±47	80	3500
AM6T-4824DH35Z	36-72	±24	±125	±47	81	3500

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range	12 24 48	9-18 18-36 36-72		VDC
Filter	π (Pi) Network			

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	1500 or 3500		VDC
Resistance		> 1000		MOhm
Capacitance		470		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±1	%
Voltage balance	Dual Output	±1		%
Short Circuit protection	Continuous			
Short circuit restart	Automatic			
Over current protection		120% Iout		
Line voltage regulation (Single)			±0.5	%
Line voltage regulation (Dual)			±0.5	%
Load voltage regulation (Single)			±0.5	%
Load voltage regulation (Dual)			±0.5	%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth		60	mV p-p

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	266		KHz
Operating temperature		-40 to +85		°C
Storage temperature		-40 to +125		°C
Case temperature			+100	°C
Derating	Non-Required			

General Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Cooling	Free air convection			
Humidity	Non condensing		90	%
Case material	Nickel coated copper			
Weight		17		g
Dimensions		1.25 x 0.8 x 0.4 inches	31.75 x 20.32 x 10.16 mm	
MTBF	>1 121 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			

Safety Specifications

Standards

Safety	IEC 60950-1:2001
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Pin Out Specifications

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

Dimensions

