



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- High efficiency up to 83%
- Wide 2:1 input range
- 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)
AM5T-1203SZ	9-18	3.3	1300	1000	73	1500
AM5T-1205SZ	9-18	5	1000	1000	77	1500
AM5T-1207SZ	9-18	7.2	690	680	80	1500
AM5T-1209SZ	9-18	9	550	680	78	1500
AM5T-1212SZ	9-18	12	410	330	81	1500
AM5T-1215SZ	9-18	15	330	220	80	1500
AM5T-1218SZ	9-18	18	270	68	80	1500
AM5T-1224SZ	9-18	24	208	68	80	1500
AM5T-2403SZ	18-36	3.3	1300	3300	75	1500
AM5T-2405SZ	18-36	5	1000	1000	80	1500
AM5T-2407SZ	18-36	7.2	690	680	82	1500
AM5T-2409SZ	18-36	9	550	680	82	1500
AM5T-2412SZ	18-36	12	410	330	80	1500
AM5T-2415SZ	18-36	15	330	220	82	1500
AM5T-2418SZ	18-36	18	270	100	82	1500
AM5T-2424SZ	18-36	24	208	100	82	1500
AM5T-4803SZ	36-72	3.3	1300	1000	75	1500
AM5T-4805SZ	36-72	5	1000	1000	80	1500
AM5T-4807SZ	36-72	7.2	690	470	81	1500
AM5T-4809SZ	36-72	9	550	470	82	1500
AM5T-4812SZ	36-72	12	410	330	80	1500
AM5T-4815SZ	36-72	15	330	220	83	1500
AM5T-4818SZ	36-72	18	270	100	82	1500
AM5T-4824SZ	36-72	18	208	100	83	1500
AM5T-1203SH35Z	9-18	3.3	1300	1000	73	3500
AM5T-1205SH35Z	9-18	5	1000	1000	77	3500
AM5T-1207SH35Z	9-18	7.2	690	680	80	3500
AM5T-1209SH35Z	9-18	9	550	680	78	3500
AM5T-1212SH35Z	9-18	12	410	330	81	3500
AM5T-1215SH35Z	9-18	15	330	220	80	3500
AM5T-1218SH35Z	9-18	18	270	68	80	3500
AM5T-1224SH35Z	9-18	24	208	68	80	3500
AM5T-2403SH35Z	18-36	3.3	1300	3300	75	3500
AM5T-2405SH35Z	18-36	5	1000	1000	80	3500
AM5T-2407SH35Z	18-36	7.2	690	680	82	3500
AM5T-2409SH35Z	18-36	9	550	680	82	3500
AM5T-2412SH35Z	18-36	12	410	330	80	3500
AM5T-2415SH35Z	18-36	15	330	220	82	3500
AM5T-2418SH35Z	18-36	18	270	100	82	3500
AM5T-2424SH35Z	18-36	24	208	100	82	3500
AM5T-4803SH35Z	36-72	3.3	1300	1000	75	3500
AM5T-4805SH35Z	36-72	5	1000	1000	80	3500
AM5T-4807SH35Z	36-72	7.2	690	470	81	3500
AM5T-4809SH35Z	36-72	9	550	470	82	3500
AM5T-4812SH35Z	36-72	12	410	330	80	3500

Models

Single Output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (µF)	Efficiency (%)	Isolation (VDC)
AM5T-4815SH35Z	36-72	15	330	220	83	3500
AM5T-4818SH35Z	36-72	18	270	100	82	3500
AM5T-4824SH35Z	36-72	24	208	100	83	3500

Models

Dual Output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (µF)	Efficiency (%)	Isolation (VDC)
AM5T-1203DZ	9-18	±3.3	±650	±680	73	1500
AM5T-1205DZ	9-18	±5	±500	±330	77	1500
AM5T-1207DZ	9-18	±7.2	±340	±220	79	1500
AM5T-1209DZ	9-18	±9	±270	±220	80	1500
AM5T-1212DZ	9-18	±12	±208	±100	80	1500
AM5T-1215DZ	9-18	±15	±160	±47	79	1500
AM5T-1218DZ	9-18	±18	±130	±33	80	1500
AM5T-1224DZ	9-18	±24	±100	±33	80	1500
AM5T-2403DZ	18-36	±3.3	±650	±1000	75	1500
AM5T-2405DZ	18-36	±5	±500	±330	78	1500
AM5T-2407DZ	18-36	±7.2	±340	±330	81	1500
AM5T-2409DZ	18-36	±9	±270	±330	83	1500
AM5T-2412DZ	18-36	±12	±208	±100	80	1500
AM5T-2415DZ	18-36	±15	±160	±47	80	1500
AM5T-2418DZ	18-36	±18	±130	±33	81	1500
AM5T-2424DZ	18-36	±24	±100	±33	80	1500
AM5T-4803DZ	36-72	±3.3	±650	±1000	73	1500
AM5T-4805DZ	36-72	±5	±500	±330	79	1500
AM5T-4807DZ	36-72	±7.2	±340	±330	81	1500
AM5T-4809DZ	36-72	±9	±270	±330	79	1500
AM5T-4812DZ	36-72	±12	±208	±100	80	1500
AM5T-4815DZ	36-72	±15	±160	±47	80	1500
AM5T-4818DZ	36-72	±18	±130	±33	77	1500
AM5T-4824DZ	36-72	±24	±100	±33	80	1500
AM5T-1203DH35Z	9-18	±3.3	±650	±680	73	3500
AM5T-1205DH35Z	9-18	±5	±500	±330	77	3500
AM5T-1207DH35Z	9-18	±7.2	±340	±220	79	3500
AM5T-1209DH35Z	9-18	±9	±270	±220	80	3500
AM5T-1212DH35Z	9-18	±12	±208	±100	80	3500
AM5T-1215DH35Z	9-18	±15	±160	±47	79	3500
AM5T-1218DH35Z	9-18	±18	±130	±33	80	3500
AM5T-1224DH35Z	9-18	±24	±100	±33	80	3500
AM5T-2403DH35Z	18-36	±3.3	±650	±1000	75	3500
AM5T-2405DH35Z	18-36	±5	±500	±330	78	3500
AM5T-2407DH35Z	18-36	±7.2	±340	±330	81	3500
AM5T-2409DH35Z	18-36	±9	±270	±330	83	3500
AM5T-2412DH35Z	18-36	±12	±208	±100	80	3500
AM5T-2415DH35Z	18-36	±15	±160	±47	80	3500
AM5T-2418DH35Z	18-36	±18	±130	±33	81	3500
AM5T-2424DH35Z	18-36	±24	±100	±33	80	3500
AM5T-4803DH35Z	36-72	±3.3	±650	±1000	73	3500
AM5T-4805DH35Z	36-72	±5	±500	±330	79	3500
AM5T-4807DH35Z	36-72	±7.2	±340	±330	81	3500
AM5T-4809DH35Z	36-72	±9	±270	±330	79	3500
AM5T-4812DH35Z	36-72	±12	±208	±100	80	3500
AM5T-4815DH35Z	36-72	±15	±160	±47	80	3500
AM5T-4818DH35Z	36-72	±18	±130	±33	77	3500

Models

Dual Output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Capacitive load, max (µF)	Efficiency (%)	Isolation (VDC)
AM5T-4824DH35Z	36-72	±24	±100	±33	80	3500
AM5T-4824DH35Z	36-72	±3.3	±650	±680	73	3500

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range	12	9-18		VDC
	24	18-36		
	48	36-72		
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		
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

Pin Out Specifications

Pin	1500 and 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

