



FEATURES:

- RoHS compliant
- Wide 2:1 input range
- High efficiency up to 82%
- Auto recovery short circuit protection
- Operating temperature -40°C to +85°C
- Input / Output Isolation 1500VDC
- Pin compatible with multiple manufacturers
- Low profile metal package

Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitive load, max (μF)	Efficiency (%)
AM3T-1203S-RZ	9-18	3.3	900	1500	470	72
AM3T-1205S-RZ	9-18	5	600	1500	470	76
AM3T-1207S-RZ	9-18	7.2	417	1500	68	78
AM3T-1209S-RZ	9-18	9	333	1500	68	78
AM3T-1212S-RZ	9-18	12	250	1500	47	80
AM3T-1215S-RZ	9-18	15	200	1500	47	80
AM3T-1218S-RZ	9-18	18	167	1500	22	80
AM3T-1224S-RZ	9-18	24	125	1500	22	80
AM3T-2403S-RZ	18-36	3.3	900	1500	470	72
AM3T-2405S-RZ	18-36	5	600	1500	470	76
AM3T-2407S-RZ	18-36	7.2	417	1500	68	79
AM3T-2409S-RZ	18-36	9	333	1500	68	78
AM3T-2412S-RZ	18-36	12	250	1500	47	80
AM3T-2415S-RZ	18-36	15	200	1500	47	82
AM3T-2418S-RZ	18-36	18	167	1500	22	79
AM3T-2424S-RZ	18-36	24	125	1500	22	82
AM3T-4803S-RZ	36-72	3.3	900	1500	470	72
AM3T-4805S-RZ	36-72	5	600	1500	470	76
AM3T-4807S-RZ	36-72	7.2	417	1500	68	77
AM3T-4809S-RZ	36-72	9	333	1500	68	78
AM3T-4812S-RZ	36-72	12	250	1500	47	80
AM3T-4815S-RZ	36-72	15	200	1500	47	80
AM3T-4818S-RZ	36-72	18	167	1500	22	80
AM3T-4824S-RZ	36-72	24	125	1500	22	80

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitive load, max (μF)	Efficiency (%)
AM3T-1203D-RZ	9-18	±3.3	±450	1500	±220	72
AM3T-1205D-RZ	9-18	±5	±300	1500	±220	76
AM3T-1207D-RZ	9-18	±7.2	±208	1500	±33	78
AM3T-1209D-RZ	9-18	±9	±167	1500	±33	80
AM3T-1212D-RZ	9-18	±12	±125	1500	±22	80
AM3T-1215D-RZ	9-18	±15	±100	1500	±22	80
AM3T-1218D-RZ	9-18	±18	±84	1500	±10	78
AM3T-1224D-RZ	9-18	±24	±63	1500	±10	80
AM3T-2403D-RZ	18-36	±3.3	±450	1500	±220	72
AM3T-2405D-RZ	18-36	±5	±300	1500	±220	78
AM3T-2407D-RZ	18-36	±7.2	±208	1500	±33	81
AM3T-2409D-RZ	18-36	±9	±167	1500	±33	80
AM3T-2412D-RZ	18-36	±12	±125	1500	±22	82
AM3T-2415D-RZ	18-36	±15	±100	1500	±22	82
AM3T-2418D-RZ	18-36	±18	±84	1500	±10	82
AM3T-2424D-RZ	18-36	±24	±63	1500	±10	82

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitive load, max (μF)	Efficiency (%)
AM3T-4803D-RZ	36-72	±3.3	±450	1500	±220	72
AM3T-4805D-RZ	36-72	±5	±300	1500	±220	76
AM3T-4807D-RZ	36-72	±7.2	±208	1500	±33	78
AM3T-4809D-RZ	36-72	±9	±167	1500	±33	78
AM3T-4812D-RZ	36-72	±12	±125	1500	±22	80
AM3T-4815D-RZ	36-72	±15	±100	1500	±22	80
AM3T-4818D-RZ	36-72	±18	±84	1500	±10	78
AM3T-4824D-RZ	36-72	±24	±63	1500	±10	80

Input Specifications

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

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage		1500		VDC
Case/ Input & Output		1000		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	Auto recovery	Indefinite		
Current limiting		120% of I _{out} max		
Line voltage regulation	LL-HL		±0.5	%
Load voltage regulation	Load: 10...100%		±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	Without derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Case temperature			100	°C
Cooling	Free air convection			
Humidity	Non condensing		95	% RH
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	ICE 60950-1 :2001

Pin Out Specifications

Pin	1500VDC	
	Single	Dual
2	-V Input	-V Input
3	-V Input	-V Input
9	No pin	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

