



### FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- High efficiency up to 83%
- Wide 4:1 input range
- Operating temperature -40 to + 85°C
- Input / Output Isolation 1500VDC
- Pin compatible with multiple manufacturers
- Continuous short circuit protection

### Models

#### Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM4TW-2403S-RZ	9-36	3.3	1200	1500	77
AM4TW-2405S-RZ	9-36	5	800	1500	80
AM4TW-2407S-RZ	9-36	7.2	550	1500	80
AM4TW-2409S-RZ	9-36	9	440	1500	80
AM4TW-2412S-RZ	9-36	12	330	1500	83
AM4TW-2415S-RZ	9-36	15	265	1500	83
AM4TW-2418S-RZ	9-36	18	220	1500	80
AM4TW-2424S-RZ	9-36	24	165	1500	81
AM4TW-4803S-RZ	18-72	3.3	1200	1500	77
AM4TW-4805S-RZ	18-72	5	800	1500	80
AM4TW-4807S-RZ	18-72	7.2	550	1500	78
AM4TW-4809S-RZ	18-72	9	440	1500	82
AM4TW-4812S-RZ	18-72	12	330	1500	81
AM4TW-4815S-RZ	18-72	15	265	1500	81
AM4TW-4818S-RZ	18-72	18	220	1500	81
AM4TW-4824S-RZ	18-72	24	165	1500	82

### Models

#### Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM4TW-2403D-RZ	9-36	±3.3	±600	1500	76
AM4TW-2405D-RZ	9-36	±5	±400	1500	78
AM4TW-2407D-RZ	9-36	±7.2	±275	1500	80
AM4TW-2409D-RZ	9-36	±9	±220	1500	80
AM4TW-2412D-RZ	9-36	±12	±165	1500	82
AM4TW-2415D-RZ	9-36	±15	±125	1500	80
AM4TW-2418D-RZ	9-36	±18	±100	1500	80
AM4TW-2424D-RZ	9-36	±24	±84	1500	80
AM4TW-4803D-RZ	18-72	±3.3	±600	1500	75
AM4TW-4805D-RZ	18-72	±5	±400	1500	79
AM4TW-4807D-RZ	18-72	±7.2	±275	1500	80
AM4TW-4809D-RZ	18-72	±9	±220	1500	81
AM4TW-4812D-RZ	18-72	±12	±165	1500	82
AM4TW-4815D-RZ	18-72	±15	±125	1500	81
AM4TW-4818D-RZ	18-72	±18	±100	1500	80
AM4TW-4824D-RZ	18-72	±24	±84	1500	80

### Input Specifications

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

### Isolation Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	1500		VDC
Resistance		> 1000		MOhm
Capacitance		390		pF

### Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±1	%
Voltage balance		±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	0...20MHz	60		mV p-p

### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	260		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		90	%
Case material		Nickel coated copper		
Weight		26		g
Dimensions		1.28 x 0.84 x 0.41 inches	32.5 x 21.35 x 10.5 mm	
MTBF		>1 050 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

### Pin Out Specifications

Pin	Single	Dual
1	Omitted	Omitted
2	-V Input	-V Input
3	-V Input	-V Input
9	N.C.	Common
10	Omitted	Omitted
11	N.C.	+V Output
12/13	Omitted	Omitted
14	+V Output	+V Output
15	Omitted	Omitted
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input
24	Omitted	Omitted

### Dimensions

