



### FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- High efficiency up to 82%
- Wide 4:1 input range
- Operating temperature -40°C 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 (%)
AM3TW-2403S-RZ	9-36	3.3	900	1500	75
AM3TW-2405S-RZ	9-36	5	600	1500	78
AM3TW-2407S-RZ	9-36	7.2	417	1500	78
AM3TW-2409S-RZ	9-36	9	334	1500	79
AM3TW-2412S-RZ	9-36	12	250	1500	81
AM3TW-2415S-RZ	9-36	15	200	1500	81
AM3TW-2418S-RZ	9-36	18	167	1500	81
AM3TW-2424S-RZ	9-36	24	125	1500	81
AM3TW-4803S-RZ	18-72	3.3	900	1500	76
AM3TW-4805S-RZ	18-72	5	600	1500	80
AM3TW-4807S-RZ	18-72	7.2	417	1500	78
AM3TW-4809S-RZ	18-72	9	334	1500	82
AM3TW-4812S-RZ	18-72	12	250	1500	80
AM3TW-4815S-RZ	18-72	15	200	1500	80
AM3TW-4818S-RZ	18-72	18	167	1500	80
AM3TW-4824S-RZ	18-72	24	125	1500	81

### Models

#### Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM3TW-2403D-RZ	9-36	±3.3	±450	1500	76
AM3TW-2405D-RZ	9-36	±5	±300	1500	79
AM3TW-2407D-RZ	9-36	±7	±208	1500	78
AM3TW-2409D-RZ	9-36	±9	±167	1500	79
AM3TW-2412D-RZ	9-36	±12	±125	1500	80
AM3TW-2415D-RZ	9-36	±15	±100	1500	80
AM3TW-2418D-RZ	9-36	±18	±84	1500	81
AM3TW-2424D-RZ	9-36	±24	±63	1500	80
AM3TW-4803D-RZ	18-72	±3.3	±400	1500	76
AM3TW-4805D-RZ	18-72	±5	±300	1500	81
AM3TW-4807D-RZ	18-72	±7	±208	1500	78
AM3TW-4809D-RZ	18-72	±9	±167	1500	82
AM3TW-4812D-RZ	18-72	±12	±125	1500	81
AM3TW-4815D-RZ	18-72	±15	±100	1500	82
AM3TW-4818D-RZ	18-72	±18	±84	1500	81
AM3TW-4824D-RZ	18-72	±24	±63	1500	81

### Input Specifications

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

**Isolation Specifications**

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	Dual output	±1		%
Short Circuit protection	Continuous			
Short circuit restart	Automatic			
Line voltage regulation (Single)	LL-HL		±0.5	%
Line voltage regulation (Dual)	LL-HL		±0.5	%
Load voltage regulation (Single)	Load: 10...100%		±0.5	%
Load voltage regulation (Dual)	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	260		KHz
Operating temperature		-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		21		g
Dimensions		1.25 x 0.8 x 0.4 inches	31.75 x 20.32 x 10.16 mm	
MTBF		>1 050 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

**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**
