



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Wide 4:1 input range
- Power modules for PCB mounting
- Operating temperature -40°C to + 75°C
- Regulated output
- Low ripple and noise
- Input/Output Isolation voltage 1500VDC

Models Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Ripple & Noise max, (%)	Efficiency (%)
AM8TW-2403SIZ	9-36	3.3	1400	80mV p-p	76
AM8TW-2405SIZ	9-36	5	1500	80mV p-p	82
AM8TW-2412SIZ	9-36	12	620	120mV p-p	84
AM8TW-2415SIZ	9-36	15	500	150mV p-p	84
AM8TW-4803SIZ	18-75	3.3	1400	80mV p-p	76
AM8TW-4805SIZ	18-75	5	1500	80mV p-p	82
AM8TW-4812SIZ	18-75	12	620	120mV p-p	84
AM8TW-4815SIZ	18-75	15	500	150mV p-p	84

Models Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Ripple & Noise max, (%)	Efficiency (%)
AM8TW-2405DIZ	9-36	±5	±750	80mV p-p	82
AM8TW-2412DIZ	9-36	±12	±310	120mV p-p	84
AM8TW-2415DIZ	9-36	±15	±250	150mV p-p	84
AM8TW-4805DIZ	18-75	±5	±750	80mV p-p	82
AM8TW-4812DIZ	18-75	±12	±310	120mV p-p	84
AM8TW-4815DIZ	18-75	±15	±250	150mV p-p	83

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range	24 48	9-36 18-75		VDC
Filter	π (Pi) Network			

Isolation Specifications

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

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±2	%
Short Circuit protection	Auto recovery	Continuous		
Over voltage protection		Zener diode clamp		
Over load protection		Over 110% full load and recovers automatically		
Line voltage regulation (Single)	HL-LL		±0.5	%
Line voltage regulation (Dual)	HL-LL		±0.5	%
Load voltage regulation (Single)	10-100%		±0.5	%
Load voltage regulation (Dual)	10-100%		±2	%
Temperature coefficient			±0.05	%/°C

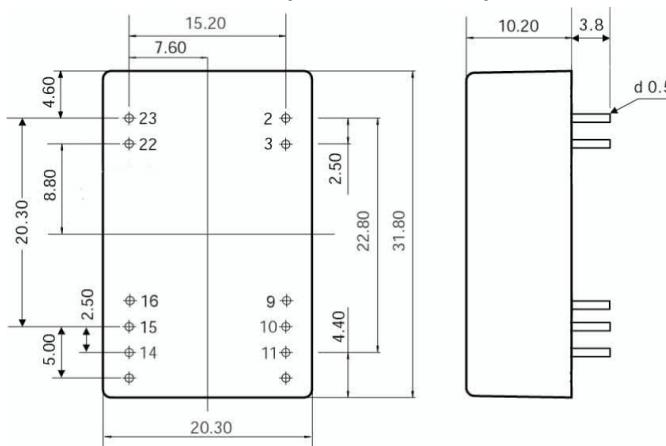
General Specifications

General Specifications				
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature		-25 to +75		°C
Storage temperature		-55 to +115		°C
Case temperature			95	°C
Derating	Above 70			°C
Cooling		Free air convection		
Humidity	Non condensing		95	%
Case material		Nickel coated copper		
Weight		16		g
Dimensions	Tolerance ±0.5mm	1.25 x 0.8 x 0.4 inches		31.8 x 20.3 x 10.2 mm
MTBF		> 800 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

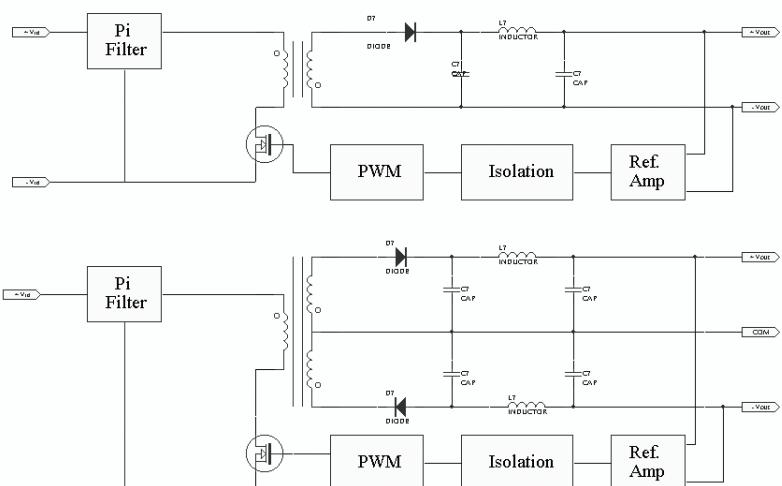
Pin Out Specifications

Pin	Single	Dual
2	-V Input	-V Input
3	-V Input	-V Input
9	N.C.	Common
10	N.C.	N.C.
11	N.C.	-V Output
14	+V Output	+V Output
15	N.C.	N.C.
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input

Dimensions (Bottom view)



Block diagram (single and dual)



Derating

