



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Wide 2:1 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, (% mV p-p)	Efficiency (%)
AM8T-0503SIZ	4.5-9	3.3	1600	80	74
AM8T-0505SIZ	4.5-9	5	1600	80	79
AM8T-0512SIZ	4.5-9	12	660	120	83
AM8T-0515SIZ	4.5-9	15	530	150	83
AM8T-1203SIZ	9-18	3.3	1600	80	75
AM8T-1205SIZ	9-18	5	1600	80	83
AM8T-1212SIZ	9-18	12	660	120	85
AM8T-1215SIZ	9-18	15	530	150	85
AM8T-2403SIZ	18-36	3.3	1600	80	81
AM8T-2405SIZ	18-36	5	1600	80	83
AM8T-2412SIZ	18-36	12	660	120	88
AM8T-2415SIZ	18-36	15	530	150	87
AM8T-4803SIZ	36-75	3.3	1600	80	81
AM8T-4805SIZ	36-75	5	1600	80	83
AM8T-4812SIZ	36-75	12	660	120	88
AM8T-4815SIZ	36-75	15	530	150	87

Models Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Ripple & Noise max, (%)	Efficiency (%)
AM8T-0505DIZ	4.5-9	±5	±800	80	85
AM8T-0512DIZ	4.5-9	±12	±330	120	85
AM8T-0515DIZ	4.5-9	±15	±260	150	85
AM8T-1205DIZ	9-18	±5	±800	80	85
AM8T-1212DIZ	9-18	±12	±330	120	85
AM8T-1215DIZ	9-18	±15	±260	150	85
AM8T-2405DIZ	18-36	±5	±800	80	83
AM8T-2412DIZ	18-36	±12	±330	120	88
AM8T-2415DIZ	18-36	±15	±260	150	87
AM8T-4805DIZ	36-72	±5	±800	80	83
AM8T-4812DIZ	36-72	±12	±330	120	88
AM8T-4815DIZ	36-72	±15	±260	150	87

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range		4.5-9 9-18 18-36 36-75		VDC
Filter		π (Pi) Network		

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	1500		VDC
Resistance		> 1000		MOhm
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	Auto recovery	Over 110% full load		
Line voltage regulation (Single)	HL-LL		±0.5	%
Line voltage regulation (Dual)	HL-LL		±0.5	%
Load voltage regulation (Single)			±0.5	%
Load voltage regulation (Dual)			±2	%
Temperature coefficient			±0.05	%/°C

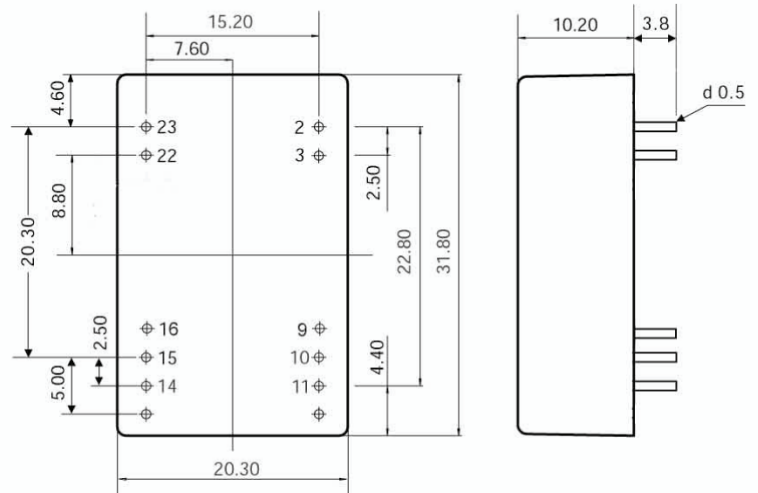
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	200		KHz
Operating temperature	Derating above +70 °C	-40 to +75		°C
Storage temperature		-55 to +115		°C
Case temperature			+95	°C
Cooling	Free air convection			
Humidity	Non condensing		95	%
Case material		Nickel coated cooper		
Weight		33		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

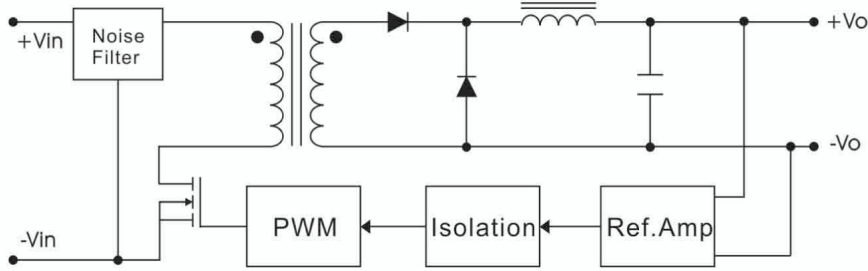
Pin	Single	Dual
2	-V Input	-V Input
3	-V Input	-V Input
9	N.C.	Common
10	N.C.	N.C.
11	N.C.	-V Output
14	+V Output	+ V Output
15	N.C.	N.C.
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input

Dimensions (Bottom view)

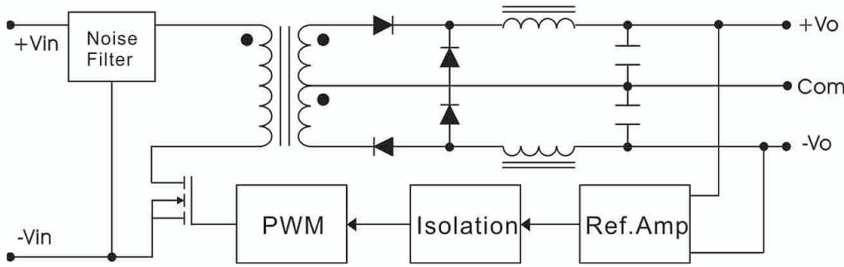


Block Diagrams

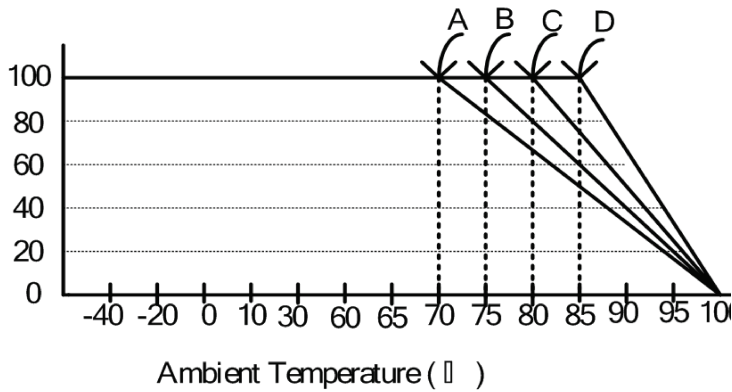
Single Output



Dual Output



Derating



A: Free Air B: 100 LFM C: 200 LFM D: 400 LFM