



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Wide 2:1 input range
- Power modules for PCB mounting
- Operating temperature -25°C to + 70°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)	Min. load (%)	Efficiency (%)
AM8T-1203SCZ	9-18	3.3	2000	4	67
AM8T-1205SCZ	9-18	5	1500	3	69
AM8T-1212SCZ	9-18	12	660	5	76
AM8T-1215SCZ	9-18	15	530	5	75
AM8T-1224SCZ	9-18	24	330	4	68
AM8T-2403SCZ	18-36	3.3	2000	3	72
AM8T-2405SCZ	18-36	5	1500	3	73
AM8T-2412SCZ	18-36	12	660	4	80
AM8T-2415SCZ	18-36	15	530	4	80
AM8T-2424SCZ	18-36	24	330	4	77
AM8T-4803SCZ	36-75	3.3	2000	3	73
AM8T-4805SCZ	36-75	5	1500	3	74
AM8T-4812SCZ	36-75	12	660	4	80
AM8T-4815SCZ	36-75	15	530	4	80
AM8T-4824SCZ	36-75	24	330	4	79

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Min. load (%)	Efficiency (%)
AM8T-1205DCZ	9-18	±5	±800	4	70
AM8T-1212DCZ	9-18	±12	±330	5	75
AM8T-1215DCZ	9-18	±15	±265	5	74
AM8T-2405DCZ	18-36	±5	±800	2	73
AM8T-2412DCZ	18-36	±12	±330	5	78
AM8T-2415DCZ	18-36	±15	±260	6	74
AM8T-4805DCZ	36-75	±5	±800	4	73
AM8T-4812DCZ	36-75	±12	±330	5	77
AM8T-4815DCZ	36-75	±15	±260	3	74

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range	12	9-18		VDC
	24	18-36		
	48	36-75		
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	Current limit		
Over voltage protection	Auto recovery	Works 120% of rating		
Line voltage regulation (Single)	HL-LL		±0.5	%
Line voltage regulation (Dual)	HL-LL		±0.5	%
Load voltage regulation (Single)	10-100%		±1	%
Load voltage regulation (Dual)	10-100%		±1	%
Temperature coefficient		±0.02		%/°C
Ripple			0.2% Vout + 20mV	Vp-p
Noise			0.5% Vout + 50mV	Vp-p

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	300		KHz
Operating temperature		-25 to +70		°C
Storage temperature		-55 to +125		°C
Case temperature			100	°C
Derating	Above 50			°C
Cooling	Free air convection			
Humidity	Non condensing		95	%
Case material	Six side shielded aluminum with non-conductive base, black anodize			
Weight		13		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)			

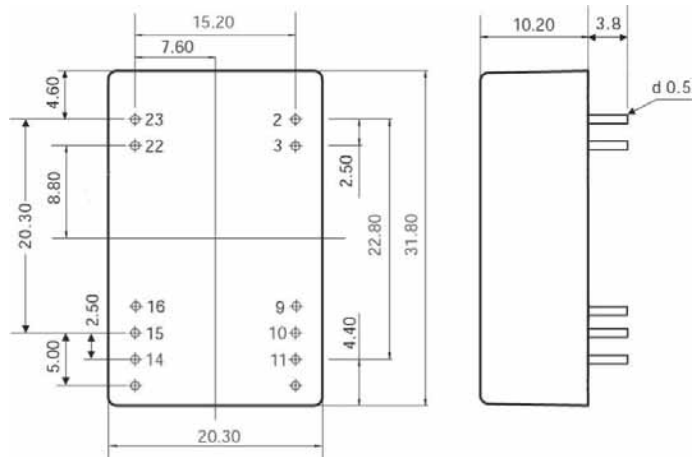
Safety Specifications

Standards	
Safety	EN 55022 – Class A
Agency approvals	CE

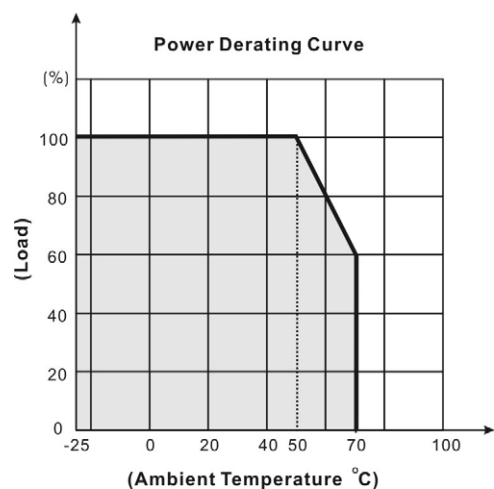
Pin Out Specifications

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

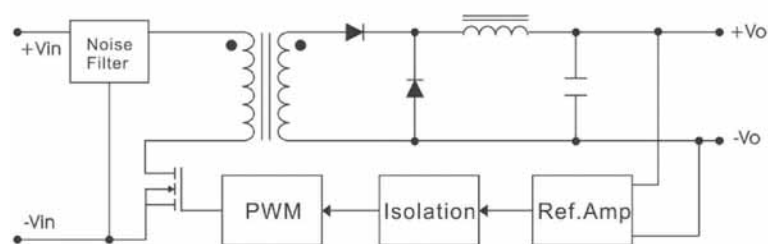


Derating



Block diagrams

Single Output



Dual Output

