



FEATURES:

- SMD Package
- I/O Isolation 1500 & 3000 VDC
- Ultra Low Ripple and Noise
- Industry Standard Pinout
- Single Output Models
- Operating temperature -40°C to + 105°C
- Efficiency up to 79%
- Continuous Short Circuit Protection



Models Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max Min (mA)		Input Current Full No Load (mA)		Isolation (VDC)	Max Capacitive Load(uF)	Efficiency (%)
AM1/4LS-0305S-NZ	2.97-3.63	5	50	5	87	20	1500	220	74
AM1/4LS-0503S-NZ	4.5-5.5	3.3	76	8	68	15	1500	220	74
AM1/4LS-0505S-NZ	4.5-5.5	5	50	5	68	15	1500	220	77
AM1/4LS-1205S-NZ	10.8-13.2	5	50	5	27	10	1500	220	75
AM1/4LS-1209S-NZ	10.8-13.2	9	28	3	27	10	1500	220	79
AM1/4LS-1212S-NZ	10.8-13.2	12	21	2	27	10	1500	220	77
AM1/4LS-2405S-NZ	21.6-26.4	5	50	5	15	8	1500	220	69
AM1/4LS-0505SH30-NZ	4.5-5.5	5	50	5	68	15	3000	220	77
AM1/4LS-1205SH30-NZ	10.8-13.2	5	50	5	27	10	3000	220	77

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	3.3	2.97-3.63		VDC
	5	4.5-5.5		
	12	10.8-13.2		
	24	21.6-26.4		
Filter	Capacitor			
Absolute Maximum Rating	3.3 Vin	-0.7-5		VDC
	5 Vin	-0.7-9		
	12 Vin	-0.7-18		
	24Vin	-0.7-30		
Peak Input Voltage time		1		s
Input Reflected Ripple Current	3.3 & 5V Input	20		mA p-p
	12 & 24 V Input	5		

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec, <1mA	1500 & 3000		VDC
Resistance	500VDC	>1000		MOhm
Capacitance		20		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	100% load (see tolerance chart)	±2.5		%
Short Circuit protection		Continuous		
Short circuit restart		Auto-Recovery		
Line voltage regulation	For ±1% of Vin	±1.5		% of Vin
Load voltage regulation	10% - 100% load	15		%
Temperature coefficient	100% load	±0.03		%/°C
Ripple & Noise	20MHz Bandwidth	20		mV p-p

General Specifications

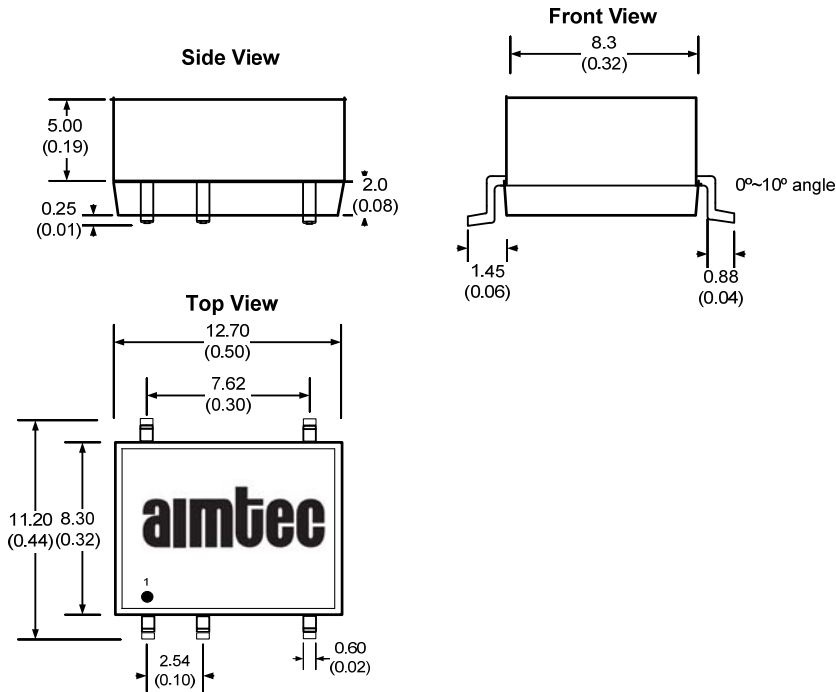
Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	100		KHz
Operating temperature	With derating above +100		-40 to +105	°C
Storage temperature			-55 to +125	°C
Cooling		Free air convection		
Humidity	Non Condensing		95	% RH
Case material		Epoxy resin (UL94-V0)		
Weight		1.5		g
Dimensions (L x W x H)		0.50 x 0.44 x 0.28 inches	12.70 x 11.20 x 7.25 mm	
MTBF		>3500K hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)hours		
Maximum soldering temperature	1.5mm from case for 10 sec		300	°C
Maximum case temperature			115	°C

Safety Specifications

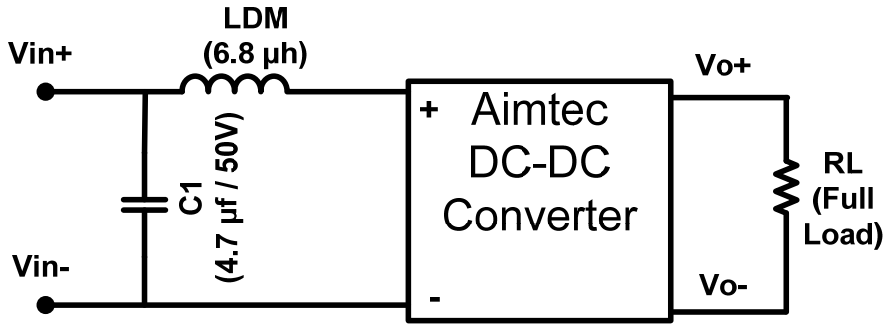
Parameters	
Agency Approval	
Standards	EN55022 Class B (see recommended circuit) IEC61000-4-2, Perf. Criteria B (ESD Contact +/- 6KV)

Pin Out Specifications and Dimensions

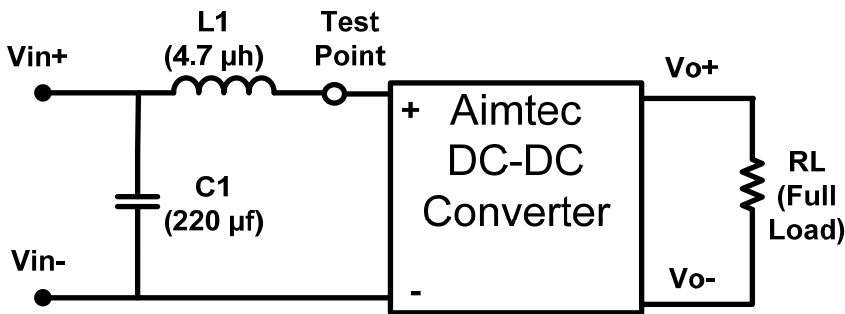
Pin	Single
1	- V Input
2	+ V Input
3	No Pin
4	-.V Output
5	+V Output
6	No Pin
7	No Pin
8	N.C.



EMI Recommended Circuit (Class B)

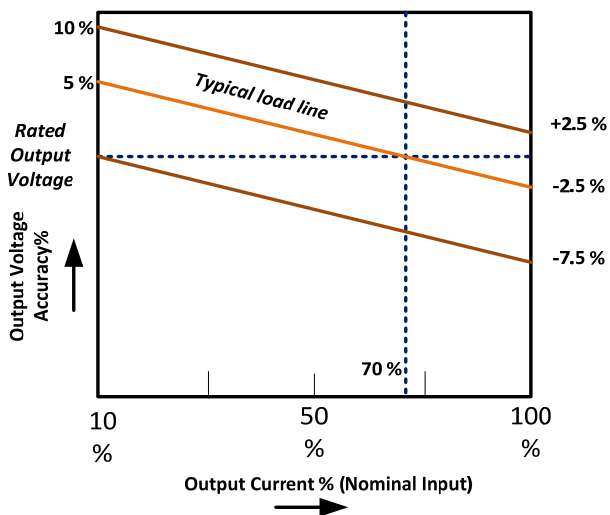


Input Reflected Ripple Current Test Circuit

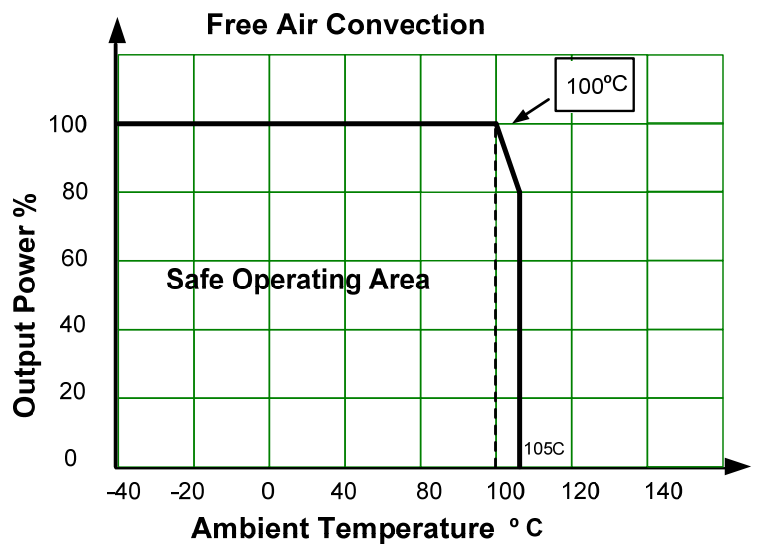


* Tested at full load, and nominal input

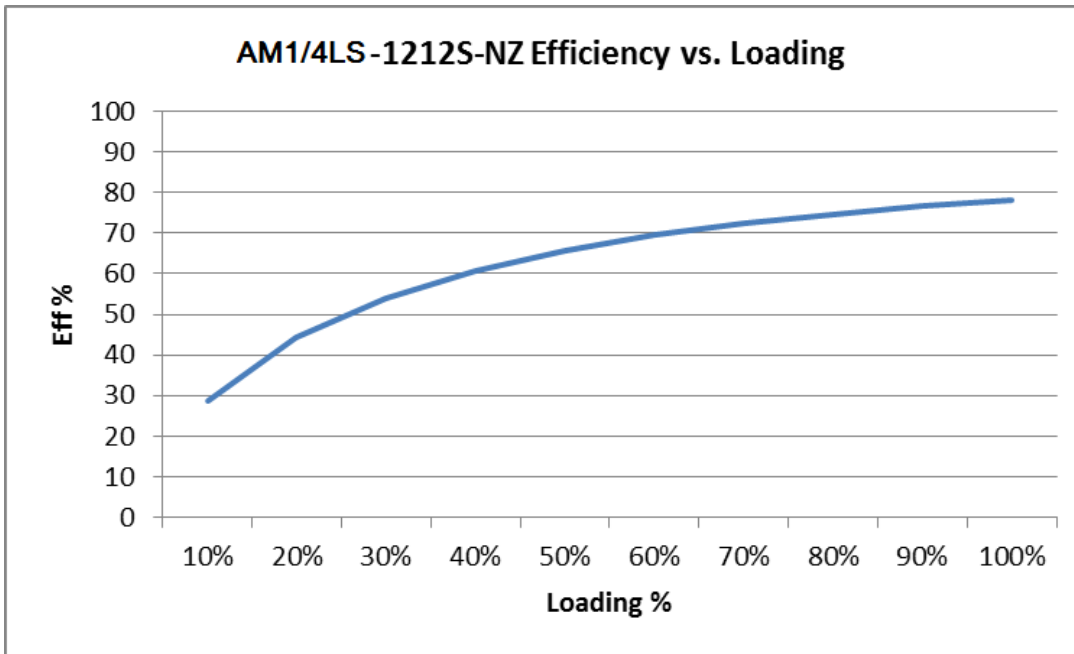
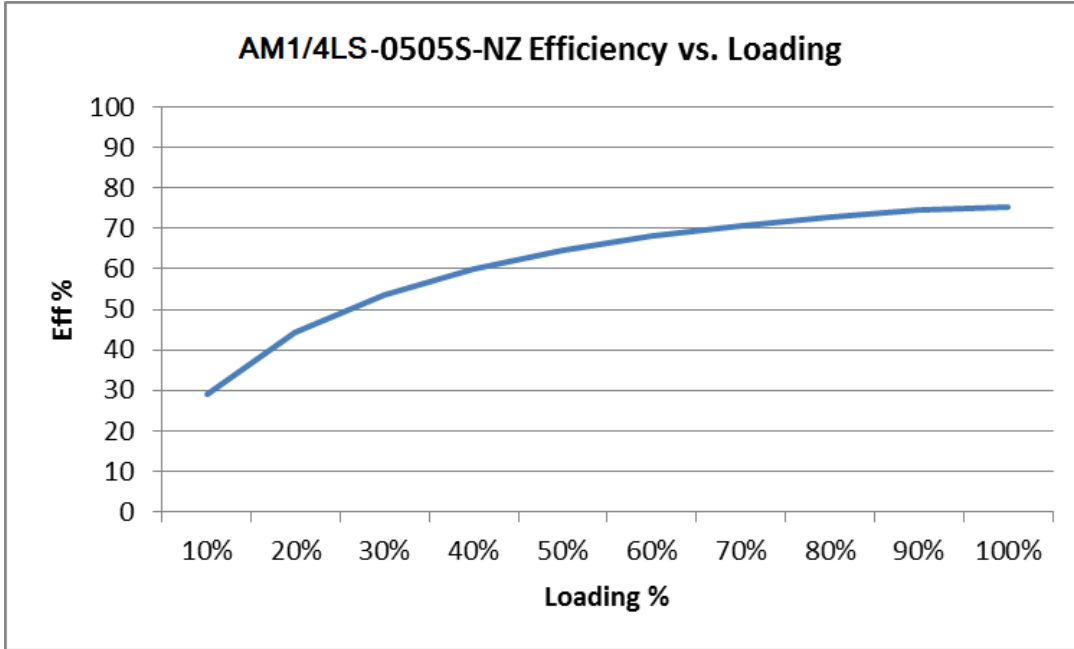
Load Accuracy Tolerance Graph



Derating



Typical Efficiency vs. Loading



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