



FEATURES:

- RoHS compliant
- High efficiency up to 89%
- Low profile plastic package
- 7 pin SIP package
- Operating temperature -40°C to + 85°C
- Short circuit protection
- Pin compatible with multiple manufacturers
- Input / Output Isolation 1000 and 3000VDC



Models
Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency
AM1D-0505S-RZ	4.5-5.5	5	200	1000	84
AM1D-0509S-RZ	4.5-5.5	9	111	1000	86
AM1D-0512S-RZ	4.5-5.5	12	83	1000	87
AM1D-0515S-RZ	4.5-5.5	15	66	1000	87
AM1D-1205S-RZ	10.8-13.2	5	200	1000	84
AM1D-1209S-RZ	10.8-13.2	9	111	1000	86
AM1D-1212S-RZ	10.8-13.2	12	83	1000	88
AM1D-1215S-RZ	10.8-13.2	15	66	1000	88
AM1D-1505S-RZ	13.6-16.5	5	200	1000	84
AM1D-1509S-RZ	13.6-16.5	9	111	1000	86
AM1D-1512S-RZ	13.6-16.5	12	83	1000	87
AM1D-1515S-RZ	13.6-16.5	15	66	1000	89
AM1D-2405S-RZ	21.6-26.4	5	200	1000	83
AM1D-2409S-RZ	21.6-26.4	9	111	1000	86
AM1D-2412S-RZ	21.6-26.4	12	83	1000	87
AM1D-2415S-RZ	21.6-26.4	15	66	1000	87
AM1D-4805S-RZ	43.6-52.8	5	200	1000	79
AM1D-4809S-RZ	43.6-52.8	9	111	1000	82
AM1D-4812S-RZ	43.6-52.8	12	83	1000	82
AM1D-4815S-RZ	43.6-52.8	15	66	1000	81
AM1D-0505SH30-RZ	4.5-5.5	5	200	3000	84
AM1D-0509SH30-RZ	4.5-5.5	9	111	3000	86
AM1D-0512SH30-RZ	4.5-5.5	12	83	3000	87
AM1D-0515SH30-RZ	4.5-5.5	15	66	3000	87
AM1D-1205SH30-RZ	10.8-13.2	5	200	3000	84
AM1D-1209SH30-RZ	10.8-13.2	9	111	3000	86
AM1D-1212SH30-RZ	10.8-13.2	12	83	3000	88
AM1D-1215SH30-RZ	10.8-13.2	15	66	3000	88
AM1D-1505SH30-RZ	13.6-16.5	5	200	3000	84
AM1D-1509SH30-RZ	13.6-16.5	9	111	3000	86
AM1D-1512SH30-RZ	13.6-16.5	12	83	3000	87
AM1D-1515SH30-RZ	13.6-16.5	15	66	3000	89
AM1D-2405SH30-RZ	21.6-26.4	5	200	3000	83
AM1D-2409SH30-RZ	21.6-26.4	9	111	3000	86
AM1D-2412SH30-RZ	21.6-26.4	12	83	3000	87
AM1D-2415SH30-RZ	21.6-26.4	15	66	3000	87
AM1D-4805SH30-RZ	43.6-52.8	5	200	3000	79
AM1D-4809SH30-RZ	43.6-52.8	9	111	3000	82
AM1D-4812SH30-RZ	43.6-52.8	12	83	3000	82
AM1D-4815SH30-RZ	43.6-52.8	15	66	3000	81

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM1D-0505D-RZ	4.5-5.5	±5	±100	1000	84
AM1D-0509D-RZ	4.5-5.5	±9	±55	1000	86
AM1D-0512D-RZ	4.5-5.5	±12	±41	1000	87
AM1D-0515D-RZ	4.5-5.5	±15	±33	1000	88
AM1D-1205D-RZ	10.8-13.2	±5	±100	1000	85
AM1D-1209D-RZ	10.8-13.2	±9	±55	1000	86
AM1D-1212D-RZ	10.8-13.2	±12	±41	1000	89
AM1D-1215D-RZ	10.8-13.2	±15	±33	1000	89
AM1D-1505D-RZ	13.6-16.5	±5	±100	1000	85
AM1D-1509D-RZ	13.6-16.5	±9	±55	1000	87
AM1D-1512D-RZ	13.6-16.5	±12	±41	1000	87
AM1D-1515D-RZ	13.6-16.5	±15	±33	1000	89
AM1D-2405D-RZ	21.6-26.4	±5	±100	1000	84
AM1D-2409D-RZ	21.6-26.4	±9	±55	1000	87
AM1D-2412D-RZ	21.6-26.4	±12	±41	1000	87
AM1D-2415D-RZ	21.6-26.4	±15	±33	1000	87
AM1D-4805D-RZ	43.6-52.8	±5	±100	1000	80
AM1D-4809D-RZ	43.6-52.8	±9	±55	1000	82
AM1D-4812D-RZ	43.6-52.8	±12	±41	1000	82
AM1D-4815D-RZ	43.6-52.8	±15	±33	1000	82
AM1D-0505DH30-RZ	4.5-5.5	±5	±100	3000	84
AM1D-0509DH30-RZ	4.5-5.5	±9	±55	3000	86
AM1D-0512DH30-RZ	4.5-5.5	±12	±41	3000	87
AM1D-0515DH30-RZ	4.5-5.5	±15	±33	3000	88
AM1D-1205DH30-RZ	10.8-13.2	±5	±100	3000	85
AM1D-1209DH30-RZ	10.8-13.2	±9	±55	3000	86
AM1D-1212DH30-RZ	10.8-13.2	±12	±41	3000	89
AM1D-1215DH30-RZ	10.8-13.2	±15	±33	3000	89
AM1D-1505DH30-RZ	13.6-16.5	±5	±100	3000	85
AM1D-1509DH30-RZ	13.6-16.5	±9	±55	3000	87
AM1D-1512DH30-RZ	13.6-16.5	±12	±41	3000	87
AM1D-1515DH30-RZ	13.6-16.5	±15	±33	3000	89
AM1D-2405DH30-RZ	21.6-26.4	±5	±100	3000	84
AM1D-2409DH30-RZ	21.6-26.4	±9	±55	3000	87
AM1D-2412DH30-RZ	21.6-26.4	±12	±41	3000	87
AM1D-2415DH30-RZ	21.6-26.4	±15	±33	3000	87
AM1D-4805DH30-RZ	43.6-52.8	±5	±100	3000	80
AM1D-4809DH30-RZ	43.6-52.8	±9	±55	3000	82
AM1D-4812DH30-RZ	43.6-52.8	±12	±41	3000	82
AM1D-4815DH30-RZ	43.6-52.8	±15	±33	3000	82

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	5	4.5-5.5		VDC
	12	10.8-13.2		
	15	13.6-16.5		
	24	21.6-26.4		
	48	43.6-52.8		
Filter	Capacitor			

Input Specifications (continued)

Parameters	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-5.5		VDC
	12	10.8-13.2		
	15	13.6-16.5		
	24	21.6-26.4		
	48	43.6-52.8		
Filter	Capacitor			
Absolute Maximum Rating	5 Vin	9		VDC
	12 Vin	18		
	15 Vin	20		
	24 Vin	30		
	48 Vin	54		
Peak Input Voltage time		100		ms
Input Reflected Ripple Current	5 & 12Vin	20		mA p-p
	15 Vin	30		
	24Vin	40		
	48	50		

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	3 sec	1000, 3000		VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±3		%
Voltage balance (Dual Output model)	Balanced Load	±1		%
Short Circuit protection		Momentary (1 sec)		
Line voltage regulation	For 1.0% of Vin	±1.2		%
Load voltage regulation	load 10~100%	±6		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	50		mV p-p

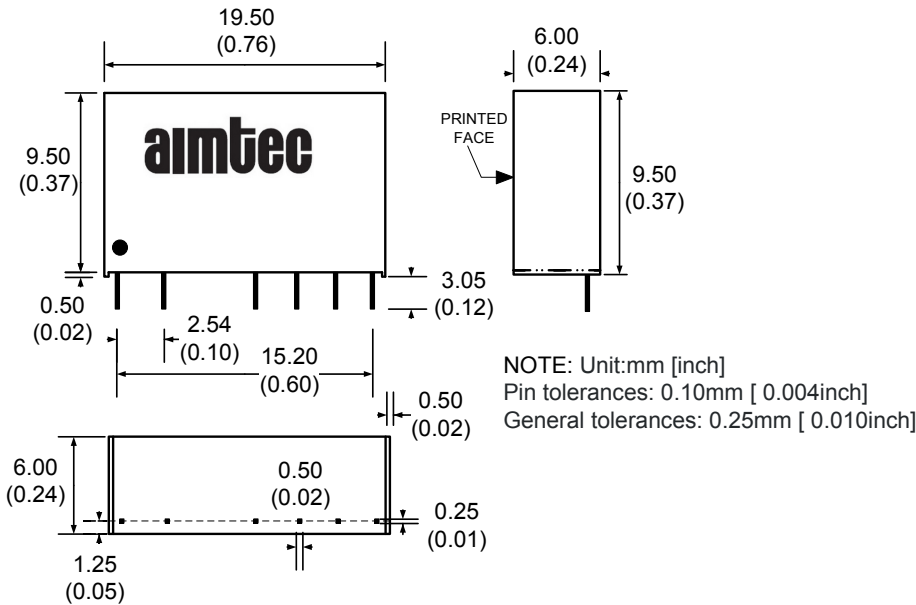
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	70		KHz
Operating temperature	Full Load without Derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Max Case temperature			+100	°C
Cooling	Free air convection			
Humidity			95	%
Case material	Non-conductive black plastic (UL94V-0 rated)			
Weight		2.3		g
Dimensions (L x W x H)	0.76 x 0.24 x 0.37 inch 19.50 x 6.00 x 9.50 mm			
MTBF	>2 000 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			

Pin Out Specifications

Pin	1000VDC		3000VDC	
	Single	Dual	Single	Dual
1	+ V Input	+ V Input	+ V Input	+ V Input
2	- V Input	- V Input	- V Input	- V Input
4	- V Output	- V Output	No pin	No pin
5	No pin	Common	- V Output	- V Output
6	+ V Output	+ V Output	No pin	Common
7	No pin	No pin	+ V Output	+ V Output

Dimensions:



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