



FEATURES:

- RoHS compliant
- High efficiency up to 76%
- Remote On/Off Control
- 8 pin SIP package
- Operating temperature -40°C to + 85°C
- Continuous Short circuit protection
- Wide 2:1 input range
- Input / Output Isolation 1000 & 3000VDC



Models
Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitor Load (µF)	Efficiency
AM1G-0503SZ	4.5-9	3.3	303	1000	3300	65
AM1G-0505SZ	4.5-9	5	200	1000	3300	65
AM1G-0507SZ	4.5-9	7.2	139	1000	470	65
AM1G-0509SZ	4.5-9	9	111	1000	470	66
AM1G-0512SZ	4.5-9	12	83	1000	470	66
AM1G-0515SZ	4.5-9	15	67	1000	470	66
AM1G-0518SZ	4.5-9	18	56	1000	220	66
AM1G-0524SZ	4.5-9	24	41	1000	220	66
AM1G-1203SZ	9-18	3.3	303	1000	3300	66
AM1G-1205SZ	9-18	5	200	1000	3300	68
AM1G-1207SZ	9-18	7.2	139	1000	470	68
AM1G-1209SZ	9-18	9	111	1000	470	72
AM1G-1212SZ	9-18	12	83	1000	470	72
AM1G-1215SZ	9-18	15	67	1000	470	72
AM1G-1218SZ	9-18	18	56	1000	220	70
AM1G-1224SZ	9-18	24	41	1000	220	70
AM1G-2403SZ	18-36	3.3	303	1000	3300	65
AM1G-2405SZ	18-36	5	200	1000	3300	68
AM1G-2407SZ	18-36	7.2	139	1000	470	68
AM1G-2409SZ	18-36	9	111	1000	470	70
AM1G-2412SZ	18-36	12	83	1000	470	72
AM1G-2415SZ	18-36	15	67	1000	470	72
AM1G-2418SZ	18-36	18	56	1000	220	70
AM1G-2424SZ	18-36	24	41	1000	220	70
AM1G-4803SZ	36-72	3.3	303	1000	3300	64
AM1G-4805SZ	36-72	5	200	1000	3300	65
AM1G-4807SZ	36-72	7.2	139	1000	470	65
AM1G-4809SZ	36-72	9	111	1000	470	67
AM1G-4812SZ	36-72	12	83	1000	470	70
AM1G-4815SZ	36-72	15	67	1000	470	70
AM1G-4818SZ	36-72	18	56	1000	220	68
AM1G-4824SZ	36-72	24	41	1000	220	68
AM1G-0503SH30Z	4.5-9	3.3	303	3000	3300	65
AM1G-0505SH30Z	4.5-9	5	200	3000	3300	65
AM1G-0507SH30Z	4.5-9	7.2	139	3000	470	65
AM1G-0509SH30Z	4.5-9	9	111	3000	470	66
AM1G-0512SH30Z	4.5-9	12	83	3000	470	66
AM1G-0515SH30Z	4.5-9	15	67	3000	470	66
AM1G-0518SH30Z	4.5-9	18	56	3000	220	66
AM1G-0524SH30Z	4.5-9	24	41	3000	220	66
AM1G-1203SH30Z	9-18	3.3	303	3000	3300	66
AM1G-1205SH30Z	9-18	5	200	3000	3300	68
AM1G-1207SH30Z	9-18	7.2	139	3000	470	68
AM1G-1209SH30Z	9-18	9	111	3000	470	72
AM1G-1212SH30Z	9-18	12	83	3000	470	72
AM1G-1215SH30Z	9-18	15	67	3000	470	72
AM1G-1218SH30Z	9-18	18	56	3000	220	70
AM1G-1224SH30Z	9-18	24	41	3000	220	70

Models

Single output Continue

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitor Load (µF)	Efficiency
AM1G-2403SH30Z	18-36	3.3	303	3000	3300	65
AM1G-2405SH30Z	18-36	5	200	3000	3300	68
AM1G-2407SH30Z	18-36	7.2	139	3000	470	68
AM1G-2409SH30Z	18-36	9	111	3000	470	70
AM1G-2412SH30Z	18-36	12	83	3000	470	72
AM1G-2415SH30Z	18-36	15	67	3000	470	72
AM1G-2418SH30Z	18-36	18	56	3000	220	70
AM1G-2424SH30Z	18-36	24	41	3000	220	70
AM1G-4803SH30Z	36-72	3.3	303	3000	3300	64
AM1G-4805SH30Z	36-72	5	200	3000	3300	65
AM1G-4807SH30Z	36-72	7.2	139	3000	470	65
AM1G-4809SH30Z	36-72	9	111	3000	470	67
AM1G-4812SH30Z	36-72	12	83	3000	470	70
AM1G-4815SH30Z	36-72	15	67	3000	470	70
AM1G-4818SH30Z	36-72	18	56	3000	220	68
AM1G-4824SH30Z	36-72	24	41	3000	220	68

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitor Load (µF)	Efficiency (%)
AM1G-0503DZ	4.5-9	±3.3	±151	1000	±1000	68
AM1G-0505DZ	4.5-9	±5	±100	1000	±1000	70
AM1G-0507DZ	4.5-9	±7.2	±69	1000	±470	70
AM1G-0509DZ	4.5-9	±9	±55	1000	±470	71
AM1G-0512DZ	4.5-9	±12	±42	1000	±470	72
AM1G-0515DZ	4.5-9	±15	±35	1000	±470	72
AM1G-0518DZ	4.5-9	±18	±28	1000	±220	72
AM1G-0524DZ	4.5-9	±24	±20	1000	±220	72
AM1G-1203DZ	9-18	±3.3	±151	1000	±1000	70
AM1G-1205DZ	9-18	±5	±100	1000	±1000	73
AM1G-1207DZ	9-18	±7.2	±69	1000	±470	74
AM1G-1209DZ	9-18	±9	±55	1000	±470	74
AM1G-1212DZ	9-18	±12	±42	1000	±470	75
AM1G-1215DZ	9-18	±15	±35	1000	±470	76
AM1G-1218DZ	9-18	±18	±28	1000	±220	75
AM1G-1224DZ	9-18	±24	±20	1000	±220	75
AM1G-2403DZ	18-36	±3.3	±151	1000	±1000	71
AM1G-2405DZ	18-36	±5	±100	1000	±1000	72
AM1G-2407DZ	18-36	±7.2	±69	1000	±470	73
AM1G-2409DZ	18-36	±9	±55	1000	±470	74
AM1G-2412DZ	18-36	±12	±42	1000	±470	75
AM1G-2415DZ	18-36	±15	±35	1000	±470	75
AM1G-2418DZ	18-36	±18	±28	1000	±220	74
AM1G-2424DZ	18-36	±24	±20	1000	±220	73
AM1G-4803DZ	36-72	±3.3	±151	1000	±1000	68
AM1G-4805DZ	36-72	±5	±100	1000	±1000	70
AM1G-4807DZ	36-72	±7.2	±69	1000	±470	70
AM1G-4809DZ	36-72	±9	±55	1000	±470	71
AM1G-4812DZ	36-72	±12	±42	1000	±470	72
AM1G-4815DZ	36-72	±15	±35	1000	±470	72
AM1G-4818DZ	36-72	±18	±28	1000	±220	72

Models

Dual output Continue

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitor Load (μF)	Efficiency (%)
AM1G-4824DZ	36-72	±24	±20	1000	±220	72
AM1G-0503DH30Z	4.5-9	±3.3	±151	3000	±1000	66
AM1G-0505DH30Z	4.5-9	±5	±100	3000	±1000	70
AM1G-0507DH30Z	4.5-9	±7.2	±69	3000	±470	70
AM1G-0509DH30Z	4.5-9	±9	±55	3000	±470	71
AM1G-0512DH30Z	4.5-9	±12	±42	3000	±470	72
AM1G-0515DH30Z	4.5-9	±15	±35	3000	±470	72
AM1G-0518DH30Z	4.5-9	±18	±28	3000	±220	72
AM1G-0524DH30Z	4.5-9	±24	±20	3000	±220	72
AM1G-1203DH30Z	9-18	±3.3	±151	3000	±1000	66
AM1G-1205DH30Z	9-18	±5	±100	3000	±1000	73
AM1G-1207DH30Z	9-18	±7.2	±69	3000	±470	74
AM1G-1209DH30Z	9-18	±9	±55	3000	±470	74
AM1G-1212DH30Z	9-18	±12	±42	3000	±470	75
AM1G-1215DH30Z	9-18	±15	±35	3000	±470	76
AM1G-1218DH30Z	9-18	±18	±28	3000	±220	75
AM1G-1224DH30Z	9-18	±24	±20	3000	±220	75
AM1G-2403DH30Z	18-36	±3.3	±151	3000	±1000	65
AM1G-2405DH30Z	18-36	±5	±100	3000	±1000	72
AM1G-2407DH30Z	18-36	±7.2	±69	3000	±470	73
AM1G-2409DH30Z	18-36	±9	±55	3000	±470	74
AM1G-2412DH30Z	18-36	±12	±42	3000	±470	75
AM1G-2415DH30Z	18-36	±15	±35	3000	±470	75
AM1G-2418DH30Z	18-36	±18	±28	3000	±220	74
AM1G-2424DH30Z	18-36	±24	±20	3000	±220	73
AM1G-4803DH30Z	36-72	±3.3	±151	3000	±1000	64
AM1G-4805DH30Z	36-72	±5	±100	3000	±1000	70
AM1G-4807DH30Z	36-72	±7.2	±69	3000	±470	70
AM1G-4809DH30Z	36-72	±9	±55	3000	±470	71
AM1G-4812DH30Z	36-72	±12	±42	3000	±470	72
AM1G-4815DH30Z	36-72	±15	±35	3000	±470	72
AM1G-4818DH30Z	36-72	±18	±28	3000	±220	72
AM1G-4824DH30Z	36-72	±24	±20	3000	±220	72

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range		5, (4.5-9) 12, (9-18) 24, (18-36) 48, (36-72)		VDC
Filter		Capacitor		

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	1000 & 3000		VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±2	%
Voltage balance	Dual Output		±1	%
Short Circuit protection	Auto recovery	Continuous		
Line voltage regulation	For 1.0% of Vin	±0.5		%
Load voltage regulation	load 25~100%	±1		%
Temperature coefficient			±0.02	%/°C
Ripple & Noise*	At 20MHz Bandwidth		50	mV p-p
Current Limiting			110	% of lout max

* - The ripple and noise should be measured with connected 100µF capacitor on the output of the converter.

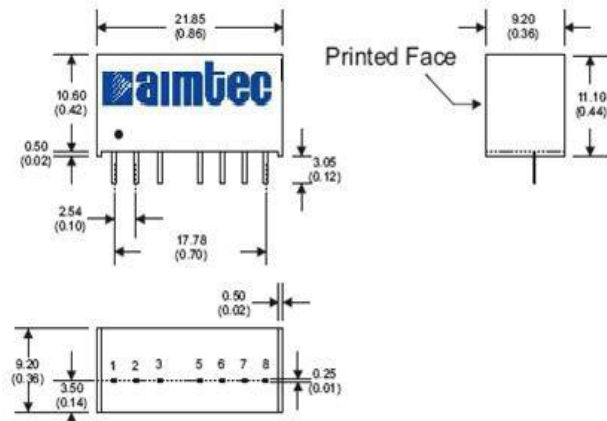
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	>100	650	KHz
Operating temperature	Without derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Case temperature			+100	°C
Cooling		Free air convection		
Humidity	Non condensing		95	%
Case material		Non-conductive black plastic (UL94V-0 rated)		
Weight		4.5		g
Dimensions		0.86 x 0.36 x 0.44 inch	21.85 x 9.2 x 11.5 mm	
MTBF		>2 732 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

Pin Out Specifications

Pin	1000 & 3000VDC	
	Single	Dual
1	- V Input	- V Input
2	+ V Input	+ V Input
3	On/Off Control	On/Off Control
5	N.C.	N.C.
6	+ V Output	+ V Output
7	- V Output	Common
8	N.C.	- V Output

Dimensions



Derating

Derating Curve

