



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

Models

Single output Continue

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitor Load (µF)	Efficiency
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
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

Models

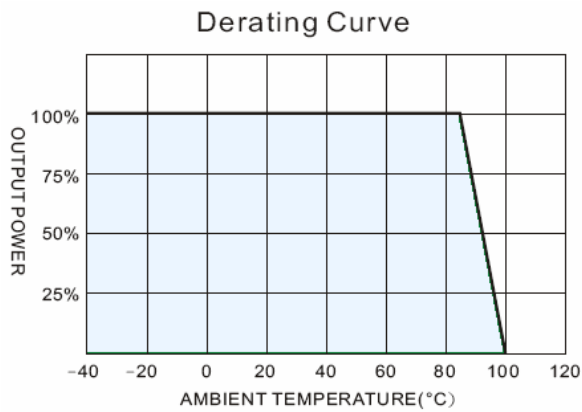
Dual output Continue

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Capacitor Load (µF)	Efficiency (%)
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
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	Nominal	Typical	Maximum	Units
Voltage range	5	4.5-9		VDC
	12	9-18		
	24	18-36		
	48	36-72		
	48	36-72		
Filter	Capacitor			
Turn on Transient process time			350	ms
Start up time		200		ms
Absolute Maximum Rating	5 Vin	-0.7-12		VDC
	12 Vin	-0.7-24		
	24 Vin	-0.7-40		
	48 Vin	-0.7-80		
Peak Input Voltage time		100		ms
On/Off Control	ON – low or open (0Vdc to 0.8Vdc); OFF – high (4.5Vdc to 15Vdc, OFF idle current:3.5mA to 15mA Max.)			

Derating



Control ON/OFF pin connection example:



The voltage could be applied through a limiting resistor and a switching diode. The converter is in a low power mode during high level phase.

NOTE: **1.** Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. **2.** Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. **3.** Mechanical drawings and specifications are for reference only. **4.** Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. **5.** This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet.