



FEATURES:

- SIP8 Package
- Low Ripple and Noise
- Continuous Short Circuit Protection
- -40°C to +85°C Operating Temperature Range
- Ultra-Wide Input Range 4:1
- 1600VDC I/O Isolation
- Efficiency up to 79%
- Remote ON/OFF Control



Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Maximum capacitive load (μF)	Efficiency (%)
AM2GH-1203SZ	4.5-18	3.3	500	1000	70
AM2GH-1205SZ	4.5-18	5	400	1000	74
AM2GH-1212SZ	4.5-18	12	166	220	78
AM2GH-1215SZ	4.5-18	15	133	100	78
AM2GH-2403SZ	9-36	3.3	500	1000	71
AM2GH-2405SZ	9-36	5	400	1000	78
AM2GH-2412SZ	9-36	12	166	220	79
AM2GH-2415SZ	9-36	15	133	100	79
AM2GH-4803SZ	18-75	3.3	500	1000	72
AM2GH-4805SZ	18-75	5	400	1000	75
AM2GH-4812SZ	18-75	12	166	220	75
AM2GH-4815SZ	18-75	15	133	100	76

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Maximum capacitive load (μF)	Efficiency (%)
AM2GH-1205DZ	4.5-18	±5	±200	±470	77
AM2GH-1212DZ	4.5-18	±12	±83	±100	78
AM2GH-1215DZ	4.5-18	±15	±66	±47	77
AM2GH-2405DZ	9-36	±5	±200	±470	75
AM2GH-2412DZ	9-36	±12	±83	±100	77
AM2GH-2415DZ	9-36	±15	±66	±47	78
AM2GH-4805DZ	18-75	±5	±200	±470	74
AM2GH-4812DZ	18-75	±12	±83	±100	74
AM2GH-4815DZ	18-75	±15	±66	±47	75

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	12 24 48	4.5-18 9-36 18-75		VDC
Filter	Capacitor			
Start up time		30		ms
Absolute Maximum Rating	12 24 48		25 50 100	VDC
Peak Input Voltage time			100	ms
On/Off control	ON: 0 to 0.6VDC (or open) ; OFF:2.7 to 15.0VDC, OFF idle current: 2-4mA			
No Load Input Current			40	mA
Input reflected current		20		mA

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	3 sec		1600	VDC
Resistance		>1000		MOhm
Capacitance		200		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±1		%
Cross Regulation (Dual Output Models)	25% load on one output - 100% load on second load	±5		%
Short Circuit protection	Continuous			
Short circuit restart	Auto-Recovery			
Line voltage regulation		±0.2		%
Load voltage regulation	From 0% to 100% load	±1		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	20MHz Bandwidth	30		mV p-p

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	100		KHz
Operating temperature		-40 to 85		°C
Storage temperature		-40 to +125		°C
Maximum case temperature			100	°C
Derating	Above 71°C	5		%/°C
Cooling	Free Air Convection			
Humidity			95	% RH
Case material	Non conductive black plastic			
Potting Material	Silicon (UL94V-0 rated)			
Weight		4.8		g
Dimensions (L x W x H)		0.86 x 0.36 x 0.44 inches	21.85 x 9.20 x 11.10 mm	
MTBF		>1,700,000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)hours		
Maximum soldering temperature	1.5mm from case for 10 second		260	°C
Transient recovery time		250		uS
Transient recovery deviation		±3		%

Safety Specifications

Parameter	
Agency Approvals	CE
Standards	EN55022: 2006 + A1:2007, Class A
	EN55024:1998 + A1:2001 + A2:2003
	IEC61000-4-2:1995 + A1:1998 + A2:2000, Perf. Criteria B
	IEC61000-4-3:2006, Perf. Criteria A
	IEC61000-4-4:2004, Perf. Criteria B (external 220uF/100V cap required)
	IEC61000-4-5:2005, Perf. Criteria B (external 220uF/100V cap required)
	IEC61000-4-6:2007, Perf. Criteria A
	IEC61000-4-8, Perf:1993 + A1:2000, Criteria A
NOTE: Also designed to meet IEC 60950-1:2001	

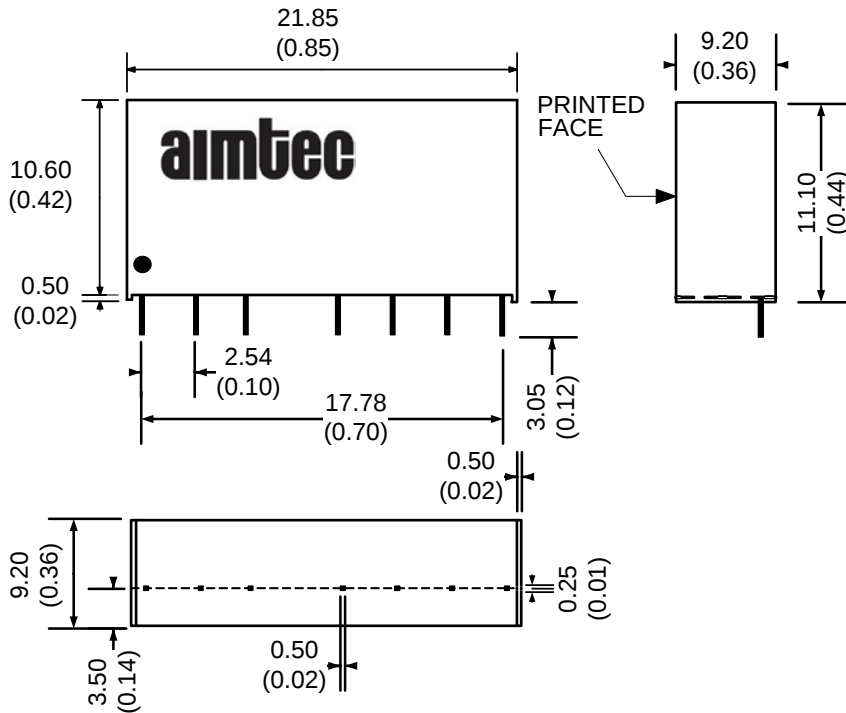
Pin Out Specifications

Pin	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

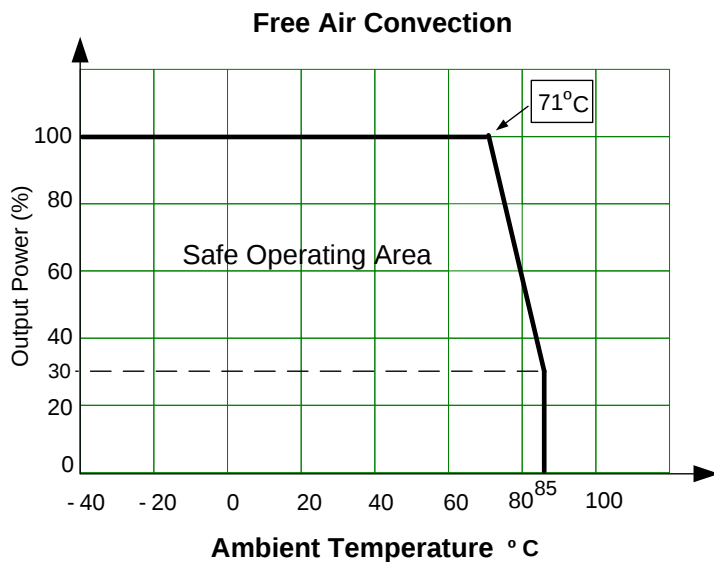
8	N.C.	- V Output
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NC: Not Connected

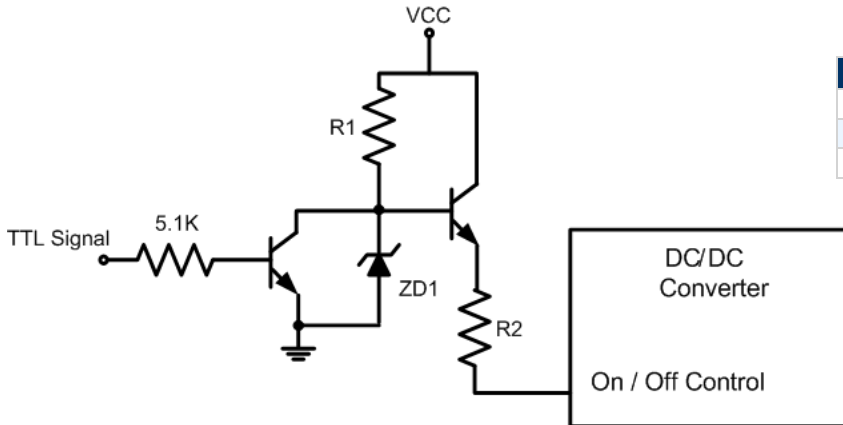
Dimensions



Derating



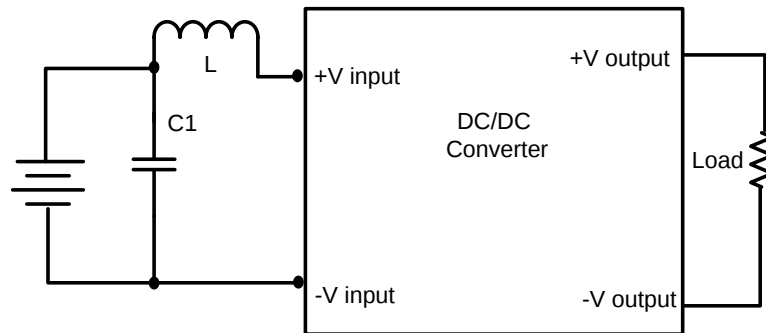
Control ON/OFF pin connection example



VCC (VDC)	R1 (KΩ)	R2(KΩ)	ZD1(V , mA)
4.5 -18	7.5	0	10, 5
9 - 36	18	2.2	18, 5
18 - 75	33	6.8	36, 5

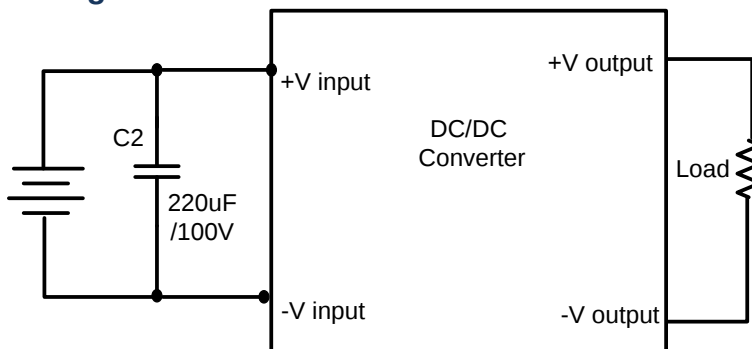
Recommended Circuits

Conducted and Radiated Emissions



Input Voltage (V)	C1 (uF/V)	L(uH)
12	10/35	2.5
24	2.2/35	10
48	2.2/35	18

EFT/ Surge



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. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. 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. 6. 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. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.