

Picture coming soon

FEATURES:

- Wide 4:1 Input Voltage Range
- High efficiency up to 88%
- 1500 VDC Isolation
- Over Current Protection
- No load consumption ≤ 0.12W
- Operating Temperature -40°C to +85°C
- Output Over Voltage protection
- Continuous Short Circuit Protection
- Input Under voltage Protection

Models Single output



Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load(uF)	Efficiency (%)
AM6CW-2403S-NZ	9-36	3.3	1500	1500	1800	79
AM6CW-2405S-NZ	9-36	5	1200	1500	1000	83
AM6CW-2409S-NZ	9-36	9	667	1500	680	85
AM6CW-2412S-NZ	9-36	12	500	1500	470	87
AM6CW-2415S-NZ	9-36	15	400	1500	220	88
AM6CW-2424S-NZ	9-36	24	250	1500	100	88
AM6CW-4803S-NZ	18-75	3.3	1500	1500	1800	79
AM6CW-4805S-NZ	18-75	5	1200	1500	1000	83
AM6CW-4812S-NZ	18-75	12	500	1500	470	87
AM6CW-4815S-NZ	18-75	15	400	1500	220	88
AM6CW-4824S-NZ	18-75	24	250	1500	100	88
AM6CW-11005S-NZ	40-160	5	1200	1500	1000	81
AM6CW-11012S-NZ	40-160	12	500	1500	100	83
AM6CW-11015S-NZ	40-160	15	400	1500	100	85
AM6CW-11024S-NZ	40-160	24	250	1500	47	85

Models **Dual output**

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load(uF)	Efficiency (%)
AM6CW-2405D-NZ	9-36	±5	±600	1500	470	83
AM6CW-2412D-NZ	9-36	±12	±250	1500	100	87
AM6CW-2415D-NZ	9-36	±15	±200	1500	100	88
AM6CW-2424D-NZ	9-36	±24	±125	1500	100	88
AM6CW-4805D-NZ	18-75	±5	±600	1500	470	83
AM6CW-4812D-NZ	18-75	±12	±250	1500	100	87
AM6CW-4815D-NZ	18-75	±15	±200	1500	100	88

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

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Parameters	Nominal	Typical	Maximum	Units
Voltage range	24 48 110	9-36 18-75 40-160		VDC
Filter		Pi		
Absolute Maximum Rating (100ms)	24 48 110		-0.7 - 50 -0.7 - 100 -0.7 - 180	VDC
No Load Input Current	24 48 110		12 8 5	mA
Input reflected current		20		mA
Input Under voltage turn off*	24 48	6.5 15.5		VDC

*24 & 48V input models only.



Isolation Specifications

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

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Voltage balance (Dual Output Models)	Balanced Load	±1.5		%
Over voltage protection		110-160		% of Vout
Over current protection	24 & 48V input models only	110-190		% of lout
Short Circuit protection		Continuous		
Short circuit restart		Auto-Recovery		
Line voltage regulation (Single)	Full load, LL to HL	±0.5		% of Vin
Line voltage regulation (Dual)	Full load, LL to HL	±1		% of Vin
Load voltage regulation (Single)	5% to 100% load	±1		%
Load voltage regulation (Dual)	5% to 100% load	±1.5		%
Cross Regulation (Dual Output Models)	25% load on one output - 100% load on second load	±5		%
Temperature coefficient	100% load		±0.03	%/°C
Ripple & Noise		100		mV p-p
Transient recovery time	25% load step change		1	mS
Transient recovery deviation	25% load step change		±8	%

General Specifications

Parameters	Conditions	Typical		Maximum	Units
Switching frequency	100% load	300			KHz
Operating temperature	Derating above 71°C		-40 to +8	35	°C
Storage temperature		-55 to +125			°C
Maximum case temperature				100	°C
Cooling		Free air o	convection		
Humidity				95	% RH
Case material		Alumin	um Alloy		
Weight		14			g
Dimensions (L x W x H)	1 x 1 x 0.46 inches 25.40 x 25.40 x 11.70 mm		10 x 11.70 mm		
MTBF	>1,000,000 hours (MIL-HDBK -217F, Ground Benign, t=+25°C		und Benign, t=+25°C)		
Maximum soldering temperature	1.5mm from case for 10 sec			300	°C

Environmental Specifications

Parameters		
	Test mode	5-150Hz
Vibration	Acceleration	2G, 30min one cycle, every axis tested
	Displacement	7.5mm

Safety Specifications

Parameters	
Approval	CE, UL
Standards	EN 55022, class B (with the recommended EMC circuit) ICE/EN/UL 60950-1

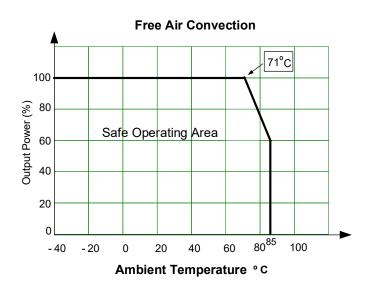




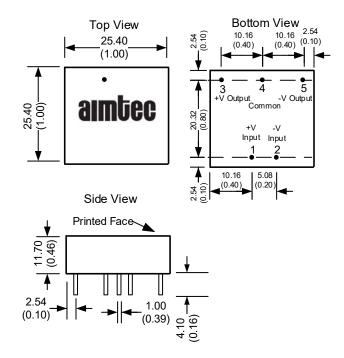
Pin Out Specifications

Pin	Single	Dual
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	No pin	Common
5	-V Output	-V Output

Derating

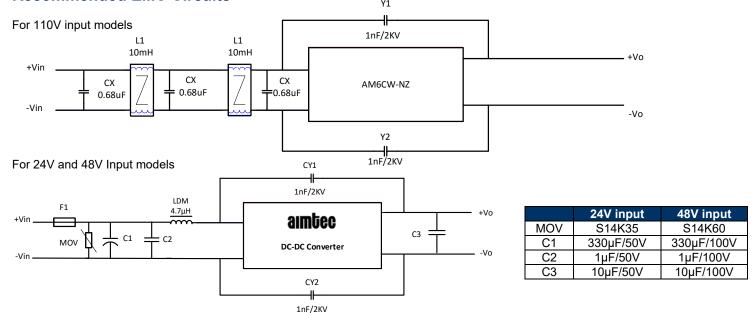


Dimensions



Notes: All dimensions are typical in millimeters (inches). Case Tolerance ± 0.25 (± 0.01)
Pin diameter tolerance ± 0.1 (± 0.004)
Pin height tolerance ± 0.5 (± 0.02)

Recommended EMC Circuits



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