



### FEATURES:

- RoHS compliant
- Wide 4:1 input range
- Low ripple and noise
- Remote On/Off control
- Power modules for PCB mounting
- Regulated output
- Operating temperature range: -40 to +85°C
- Capacitive loading up to 4500  $\mu$ F (18-75V input)

### Models

#### Single output



Model	Input Voltage (V)	Output Voltage (V)	Output Current max (A)	Ripple & Noise typ	Isolation (VDC)	Efficiency (%)
AM15EW-2403SIZ	9-36	3.3	4	80mV p-p	1500	77
AM15EW-2405SIZ	9-36	5	3	80mV p-p	1500	80
AM15EW-2412SIZ	9-36	12	1.25	120mVp-p	1500	85
AM15EW-2415SIZ	9-36	15	1	150mVp-p	1500	84
AM15EW-4803SIZ	18-75	3.3	4	80mV p-p	1500	77
AM15EW-4805SIZ	18-75	5	3	80mV p-p	1500	80
AM15EW-4812SIZ	18-75	12	1.25	120mVp-p	1500	85
AM15EW-4815SIZ	18-75	15	1	150mVp-p	1500	84
AM15EW-11005SIZ	36-160	5	3	80mV p-p	1500	80
AM15EW-11012SIZ	36-160	12	1.25	120mVp-p	1500	82
AM15EW-11015SIZ	36-160	15	1	150mVp-p	1500	80
AM15EW-11024SIZ	36-160	24	0.625	240mVp-p	1500	80
AM15EW-2403SH30IZ	9-36	3.3	4	80mV p-p	3000	74
AM15EW-2405SH30IZ	9-36	5	3	120mVp-p	3000	78
AM15EW-2412SH30IZ	9-36	12	1.25	150mVp-p	3000	80
AM15EW-2415SH30IZ	9-36	15	1	240mVp-p	3000	83
AM15EW-4803SH30IZ	18-75	3.3	4	80mV p-p	3000	76
AM15EW-4805SH30IZ	18-75	5	3	120mVp-p	3000	75
AM15EW-4812SH30IZ	18-75	12	1.25	150mVp-p	3000	79
AM15EW-4815SH30IZ	18-75	15	1	240mVp-p	3000	83

### Models

#### Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (A)	Ripple & Noise typ	Isolation (VDC)	Efficiency (%)
AM15EW-2405DIZ	9-36	$\pm$ 5	$\pm$ 1.5	50mVp-p	1500	80
AM15EW-2412DIZ	9-36	$\pm$ 12	$\pm$ 0.625	120mVp-p	1500	85
AM15EW-2415DIZ	9-36	$\pm$ 15	$\pm$ 0.5	150mVp-p	1500	84
AM15EW-4805DIZ	18-72	$\pm$ 5	$\pm$ 1.5	50mVp-p	1500	80
AM15EW-4812DIZ	18-72	$\pm$ 12	$\pm$ 0.625	120mVp-p	1500	85
AM15EW-4815DIZ	18-72	$\pm$ 15	$\pm$ 0.5	150mVp-p	1500	84
AM15EW-11005DIZ	36-160	$\pm$ 5	$\pm$ 1.5	50mVp-p	1500	78
AM15EW-11012DIZ	36-160	$\pm$ 12	$\pm$ 0.62	120mVp-p	1500	80
AM15EW-11015DIZ	36-160	$\pm$ 15	$\pm$ 0.5	150mVp-p	1500	81
AM15EW-2405DH30IZ	9-36	$\pm$ 5	$\pm$ 1.5	50mVp-p	3000	79
AM15EW-2412DH30IZ	9-36	$\pm$ 12	$\pm$ 0.62	120mVp-p	3000	83
AM15EW-2415DH30IZ	9-36	$\pm$ 15	$\pm$ 0.5	150mVp-p	3000	83
AM15EW-4805DH30IZ	18-72	$\pm$ 5	$\pm$ 1.5	50mVp-p	3000	78
AM15EW-4812DH30IZ	18-72	$\pm$ 12	$\pm$ 0.62	120mVp-p	3000	80
AM15EW-4815DH30IZ	18-72	$\pm$ 15	$\pm$ 0.5	150mVp-p	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	24 48 110	9-36 18-75 36-160		VDC
Filter	$\pi$ (Pi) Network			
Absolute Maximum Rating	24 Vin 48 Vin 110 Vin		40 83 220	VDC
Permissible absolute maximum duration			2	h

### Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec	1500 & 3000	1500	VDC
Resistance		> 1000		MOhm
Capacitance		1000		pF

### Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		$\pm 2$		%
Short Circuit protection		Continuous		
Short Circuit restart		Auto recovery		
Over voltage protection		Zener diode clamp protection		
Over load protection	Auto recovery	Over 110% full load		
Line voltage regulation (Single)	HL-LL	$\pm 0.5$		%
Line voltage regulation (Dual)	HL-LL	$\pm 0.5$		%
Load voltage regulation (Single)	25-100%	$\pm 0.5$		%
Load voltage regulation (Dual)	25-100%	$\pm 2$		%
Temperature coefficient		$\pm 0.05$		%/°C
Recommended Input Fuse (slow blow)	24 Vin	4A/250V		
	48 Vin	2A/250V		
	110 Vin	1A/250V		

### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	200		KHz
Operating temperature	With derating above +75	-40 to +85		°C
Storage temperature		-55 to +115		°C
Max Case temperature			95	°C
Cooling		Free air convection		
Humidity			95	%
Case material		Nickel coated copper with non-conductive base		
Weight		33		g
Dimensions(L x W x H)	Tolerance $\pm 0.5$ mm	2.00 x 1.00 x 0.40 inches	50.80 x 25.40 x 10.50 mm	
MTBF		> 800 000 hrs (MIL-HDBK -217F, Ground Benign, $t=+25^{\circ}\text{C}$ )		

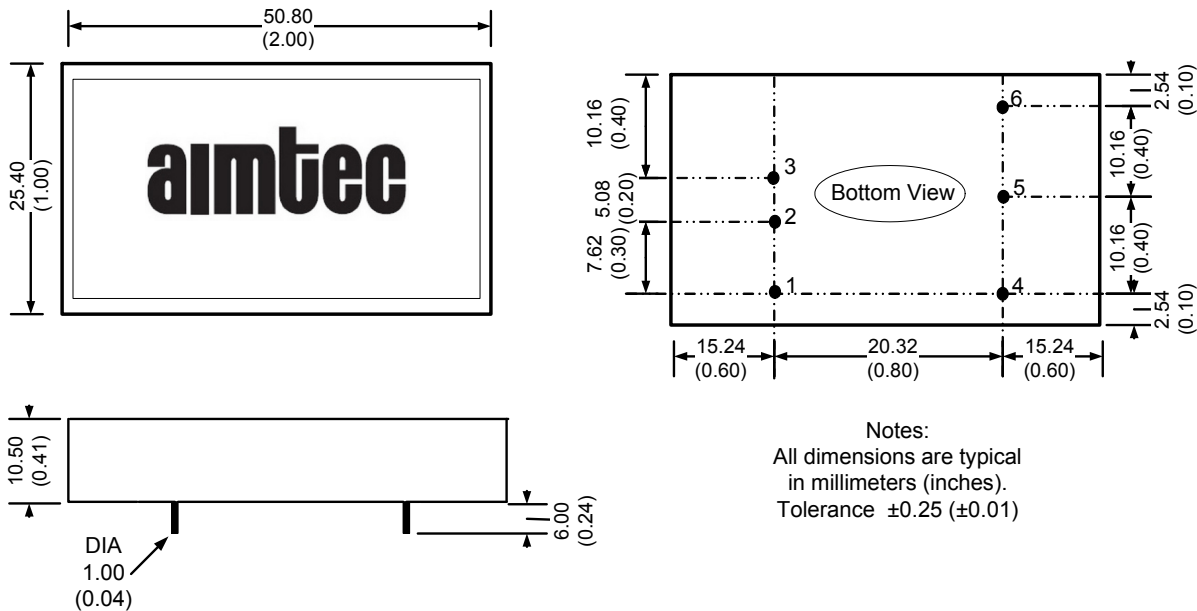
### Safety Specifications

Parameters	
Agency Approvals	CE
Standards	EN 55022, EN 55024
	IEC61000-3-2
	IEC61000-3-3
	IEC61000-4-2, Perf. Criteria B
	IEC61000-4-3 Perf. Criteria A
	IEC61000-4-4, Perf. Criteria B
	IEC61000-4-6, Perf. Criteria A
	IEC61000-4-8, Perf. Criteria A
NOTE: also designed to meet standard IEC 60950-1:2001	

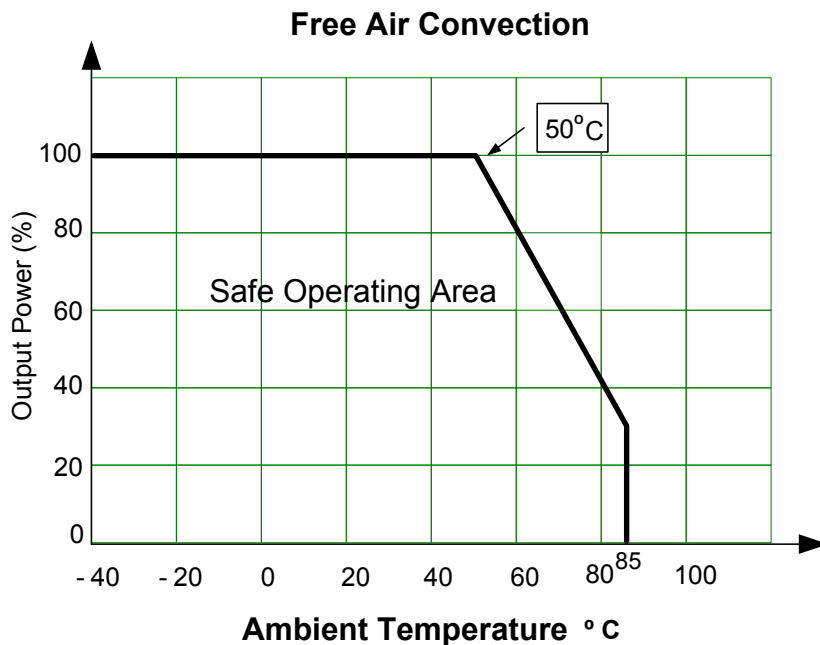
### Pin Out Specifications

Pin	Single	Dual
1	On/Off Control	On/Off Control
2	-V Input	-V Input
3	+V Input	+V Input
4	-V Output	-V Output
5	No pin	Common
6	+V Output	+V Output

### Dimensions

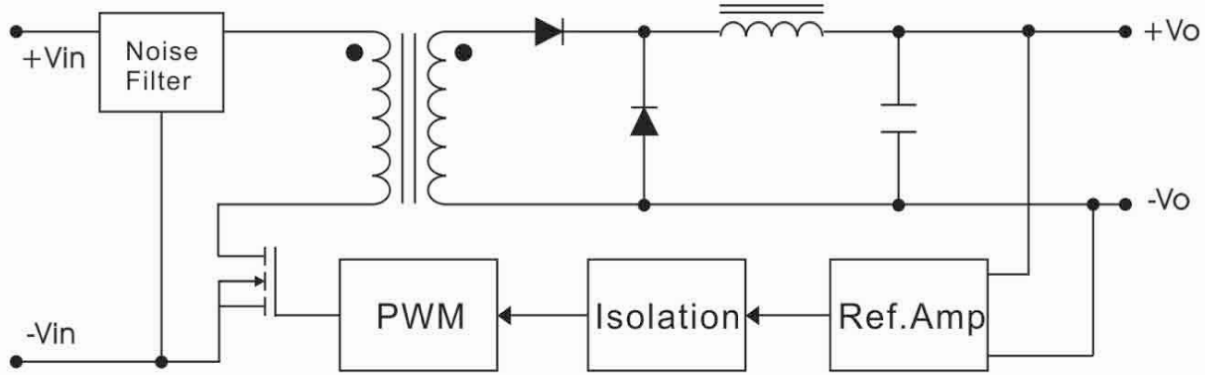


### Derating

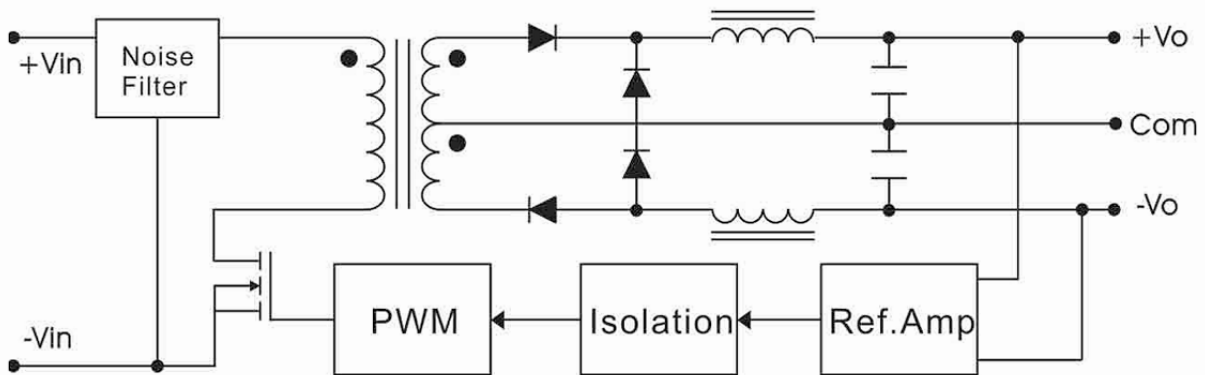


**Block diagram**

**Single Output**



**Dual Output**



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