



### FEATURES:

- RoHS compliant
- 2:1 input range
- Low ripple and noise
- Remote On/Off control
- Power modules for PCB mounting
- Regulated output
- Operating temperature range: -40 to +75°C
- Capacitive loading up to 41000 µF (36-75V input)

### Models Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (A)	Ripple & Noise % Vout, max	Isolation (VDC)	Efficiency (%)
AM15E-1203SIZ	9-18	3.3	4	80mV p-p	1500	75
AM15E-1205SIZ	9-18	5	3	80mV p-p	1500	83
AM15E-1212SIZ	9-18	12	1.25	1	1500	85
AM15E-1215SIZ	9-18	15	1	1	1500	85
AM15E-2403SIZ	18-36	3.3	4	80mV p-p	1500	81
AM15E-2405SIZ	18-36	5	3	80mV p-p	1500	83
AM15E-2412SIZ	18-36	12	1.25	1	1500	88
AM15E-2415SIZ	18-36	15	1	1	1500	87
AM15E-4803SIZ	36-75	3.3	4	80mV p-p	1500	81
AM15E-4805SIZ	36-75	5	3	80mV p-p	1500	83
AM15E-4812SIZ	36-75	12	1.25	1	1500	88
AM15E-4815SIZ	36-75	15	1	1	1500	87

### Models Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (A)	Ripple & Noise % Vout, max	Isolation (VDC)	Efficiency (%)
AM15E-2405DIZ	9-18	±5	±1.5	1	1500	85
AM15E-2412DIZ	9-18	±12	±0.62	1	1500	85
AM15E-2415DIZ	9-18	±15	±0.5	1	1500	85
AM15E-2405DIZ	18-36	±5	±1.5	1	1500	83
AM15E-2412DIZ	18-36	±12	±0.62	1	1500	88
AM15E-2415DIZ	18-36	±15	±0.5	1	1500	87
AM15E-4805DIZ	36-75	±5	±1.5	1	1500	83
AM15E-4812DIZ	36-75	±12	±0.62	1	1500	88
AM15E-4815DIZ	36-75	±15	±0.5	1	1500	87

### Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range		9-18 18-36 37-75		VDC
Filter		π (Pi) Network		

### Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage		1500		VDC
Resistance		> 1000		MΩ
Capacitance		1000		pF

## Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			$\pm 2$	%
Short Circuit protection	Auto recovery	Continuous,		
Over voltage protection		Zener diode clamp protection		
Over load protection		Over 110% full load and recovers automatically		
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		$\pm 0.05$		$^{\circ}\text{C}$

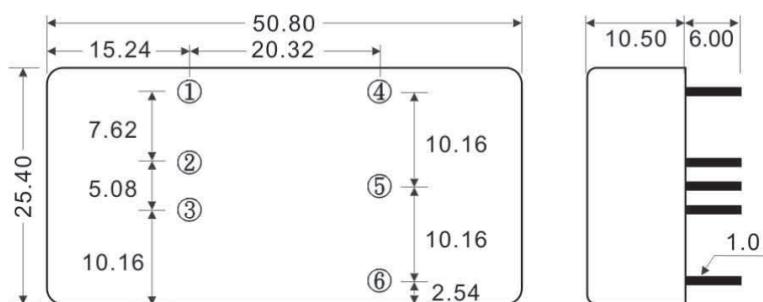
## General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	200		KHz
Operating temperature	Without derating	-40 to +75		$^{\circ}\text{C}$
Storage temperature		-55 to +115		$^{\circ}\text{C}$
Case temperature		95		$^{\circ}\text{C}$
Cooling	Free air convection			
Humidity	Non condensing		95	%
Case material		Nickel coated copper		
Weight		33		g
Dimensions		2.00 x 1.0 x 0.4 inches	50.8 x 25.4 x 10.2 mm	
MTBF		> 800 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25 $^{\circ}\text{C}$ )		

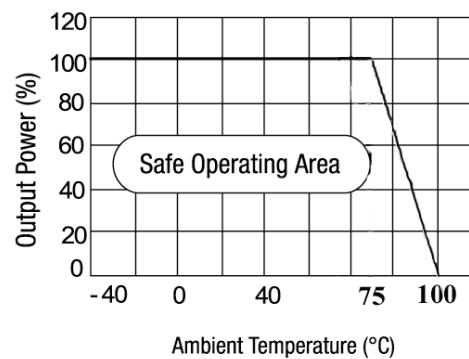
## Pin Out Specifications

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

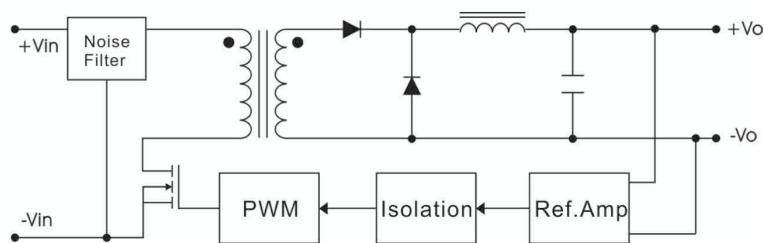


## Temperature Derating Graph



## Block diagram

### Single Output



### Dual Output

