



FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Shielded metal package
- High efficiency up to 85%
- Wide 2:1 input range
- Operating temperature -40°C to + 71°C
- Input / Output isolation 1500VDC
- Pin computable with multiple manufacturers
- Continuous short circuit protection

Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM5T-1203S-NZ	9-18	3.3	1200	1500	
AM5T-1205S-NZ	9-18	5	1000	1500	75
AM5T-1212S-NZ	9-18	12	420	1500	77
AM5T-1215S-NZ	9-18	15	330	1500	79
AM5T-1224S-NZ	9-18	24	200	1500	81
AM5T-2403S-NZ	18-36	3.3	1200	1500	
AM5T-2405S-NZ	18-36	5	1000	1500	75
AM5T-2412S-NZ	18-36	12	420	1500	78
AM5T-2415S-NZ	18-36	15	330	1500	82
AM5T-2424S-NZ	18-36	24	200	1500	85
AM5T-4803S-NZ	36-72	3.3	1200	1500	
AM5T-4805S-NZ	36-72	5	1000	1500	78
AM5T-4812S-NZ	36-72	12	420	1500	81
AM5T-4815S-NZ	36-72	15	330	1500	84
AM5T-4824S-NZ	36-72	24	200	1500	85

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM5T-1205D-NZ	9-18	±5	±500	1500	
AM5T-1212D-NZ	9-18	±12	±210	1500	
AM5T-1215D-NZ	9-18	±15	±165	1500	
AM5T-1224D-NZ	9-18	±24	±100	1500	
AM5T-2405D-NZ	18-36	±5	±500	1500	76
AM5T-2412D-NZ	18-36	±12	±210	1500	78
AM5T-2415D-NZ	18-36	±15	±165	1500	82
AM5T-2424D-NZ	18-36	±24	±100	1500	85
AM5T-4805D-NZ	36-72	±5	±500	1500	79
AM5T-4812D-NZ	36-72	±12	±210	1500	82
AM5T-4815D-NZ	36-72	±15	±165	1500	85
AM5T-4824D-NZ	36-72	±24	±100	1500	85

Input Specifications

Input Specifications	Conditions	Typical	Maximum	Units
Voltage range		12,9-18 24, 18-36 48, 36-72		VDC
Filter		π (Pi) Network		

Isolation Specifications

Input Specifications	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	1500		VDC
Resistance		> 1000		MOhm
Capacitance		120		pF

Output Specifications

Output Specifications	Conditions	Typical	Maximum	Units
Voltage accuracy			± 1	%
Voltage balance		$\pm 1p.$ and $\pm 3 n.$		%
Short Circuit protection		Continuous		
Short circuit restart		Automatic		
Over voltage protection				
Over current protection				
Line voltage regulation (Single)			± 0.2	%
Line voltage regulation (Dual)			± 0.2	%
Line voltage regulation (Triple)				
Load voltage regulation (Single)			± 0.5	%
Load voltage regulation (Dual)			± 0.5	%
Load voltage regulation (Triple)				
Temperature coefficient		± 0.02		%/°C
Ripple & Noise				
Ripple		30		m Vp-p
Noise		300		m Vp-p

General Specifications

Input Specifications	Conditions	Typical	Maximum	Units
S-itcing frequency	100% load	120		KHz
Isolation capacitance				
Operating temperature		-40 to +71		°C
Storage temperature		-55 to +125		°C
Case temperature			100	°C
Derating		Non-Required		
Cooling		Free air convection		
Humidity		Up to 95		%
Case material		Nickel coated cooper		
Weight		26		g
Dimensions		1.25 x 0.8 x 0.4 inches	31.75 x 20.32 x 10.16 mm	
MTBF	>1 000 000 hrs (MIL-HDBK -217F, Ground Benign, $t=+25^{\circ}\text{C}$)			

Safety Specifications

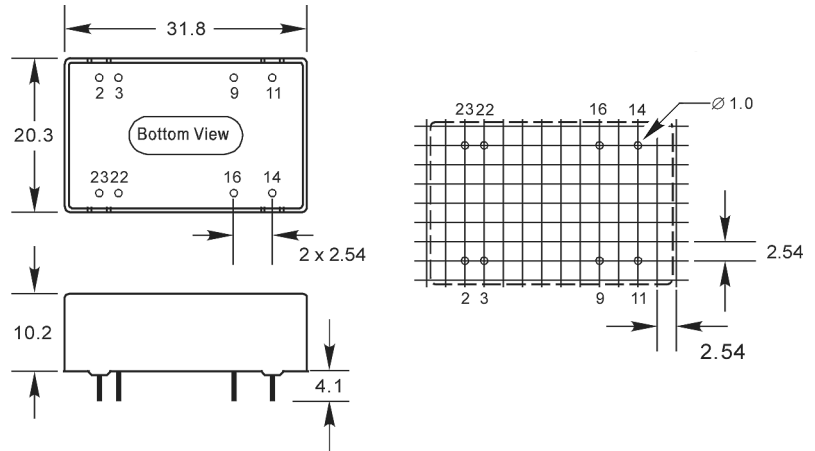
Standards

Safety	
Agency approvals	

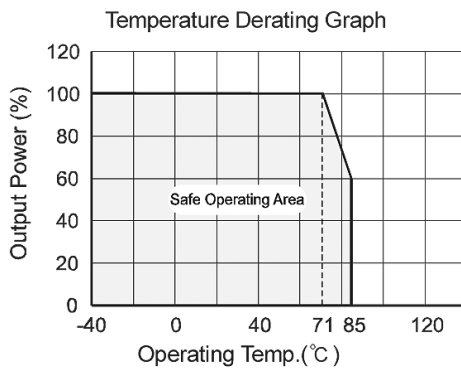
Pin Out Specifications

Pin	1500 and 3500VDC	
	Single	
2	-V Input	-V Input
3	-V Input	-V Input
9	Omitted.	Common
11	N.C.	-V Output
14	+V Output	+V Output
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input

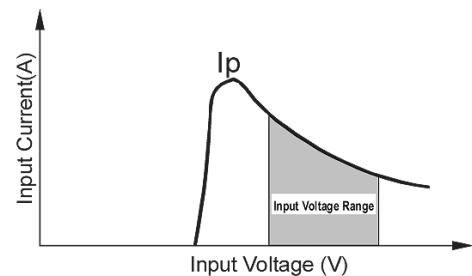
Dimensions



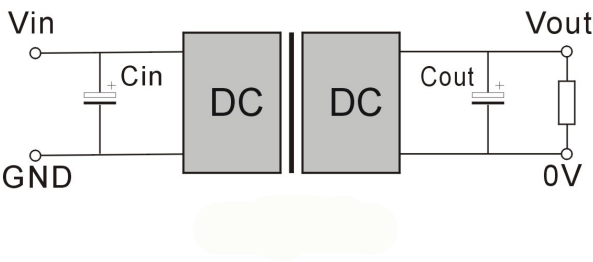
Typical characteristics



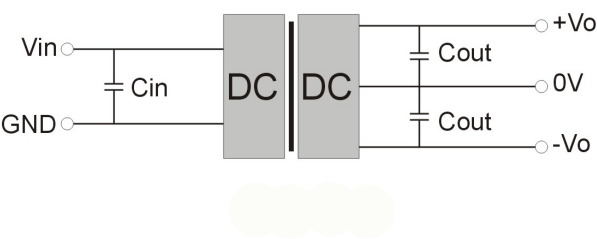
Input current



Recommended circuit single



Recommended circuit dual



Vin (V)	Cin (uF)	Vout (V)	Cout (uF)
12	1000	5	100 each 1A Current
24	100	12	
48	100	15	
		24	