



FEATURES:

- RoHS compliant
- 4 Pin SIP Package
- Low ripple and noise
- High efficiency up to 78%
- Operating temperature -40°C to + 85°C
- Input / Output isolation 1000 and 3000VDC
- Pin computable with multiple manufacturers

Models
Single output

Model	Input –Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM1S-0503SZ	4.5-5.5	3.3	300	1000	72
AM1S-0505SZ	4.5-5.5	5	200	1000	75
AM1S-0507SZ	4.5-5.5	7.2	140	1000	76
AM1S-0509SZ	4.5-5.5	9	110	1000	77
AM1S-0512SZ	4.5-5.5	12	83	1000	78
AM1S-0515SZ	4.5-5.5	15	67	1000	78
AM1S-0518SZ	4.5-5.5	18	56	1000	78
AM1S-0524SZ	4.5-5.5	24	42	1000	78
AM1S-1203SZ	10.8-13.2	3.3	300	1000	72
AM1S-1205SZ	10.8-13.2	5	200	1000	75
AM1S-1207SZ	10.8-13.2	7.2	140	1000	76
AM1S-1209SZ	10.8-13.2	9	110	1000	77
AM1S-1212SZ	10.8-13.2	12	83	1000	78
AM1S-1215SZ	10.8-13.2	15	67	1000	78
AM1S-1218SZ	10.8-13.2	18	56	1000	78
AM1S-1224SZ	10.8-13.2	24	42	1000	78
AM1S-2403SZ	21.6-26.4	3.3	300	1000	72
AM1S-2405SZ	21.6-26.4	5	200	1000	75
AM1S-2407SZ	21.6-26.4	7.2	140	1000	76
AM1S-2409SZ	21.6-26.4	9	110	1000	77
AM1S-2412SZ	21.6-26.4	12	83	1000	78
AM1S-2415SZ	21.6-26.4	15	67	1000	78
AM1S-2418SZ	21.6-26.4	18	56	1000	78
AM1S-2424SZ	21.6-26.4	24	42	1000	78
AM1S-0503SH30Z	4.5-5.5	3.3	300	3000	72
AM1S-0505SH30Z	4.5-5.5	5	200	3000	75
AM1S-0507SH30Z	4.5-5.5	7.2	140	3000	76
AM1S-0509SH30Z	4.5-5.5	9	110	3000	77
AM1S-0512SH30Z	4.5-5.5	12	83	3000	78
AM1S-0515SH30Z	4.5-5.5	15	67	3000	78
AM1S-0518SH30Z	4.5-5.5	18	56	3000	78
AM1S-0524SH30Z	4.5-5.5	24	42	3000	78
AM1S-1203SH30Z	10.8-13.2	3.3	300	3000	72
AM1S-1205SH30Z	10.8-13.2	5	200	3000	75
AM1S-1207SH30Z	10.8-13.2	7.2	140	3000	76
AM1S-1209SH30Z	10.8-13.2	9	110	3000	77
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AM1S-2403SH30Z	21.6-26.4	3.3	300	3000	72
AM1S-2405SH30Z	21.6-26.4	5	200	3000	75
AM1S-2407SH30Z	21.6-26.4	7.2	140	3000	76
AM1S-2409SH30Z	21.6-26.4	9	110	3000	77
AM1S-2412SH30Z	21.6-26.4	12	83	3000	78
AM1S-2415SH30Z	21.6-26.4	15	67	3000	78
AM1S-2418SH30Z	21.6-26.4	18	56	3000	78
AM1S-2424SH30Z	21.6-26.4	24	42	3000	78

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range		5, (4.5-5.5) 12, (10.8-13.2) 24, (21.6-26.4)		VDC
Filter	Capacitor			
Turn on Transient process time			25	ms
Start up time		200		ms
Absolute Maximum Rating	5 Vin 12 Vin 24 Vin	0-7 0-15 0-28		VDC
Peak Input Voltage time		100		ms

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	1000 and 3000		VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±3	%
Short Circuit protection	1sec			
Line voltage regulation (Single)	For 1% change of Vin		±1.2	% of Vin
Load voltage regulation (Single)	Load 20 – 100%		±8	%
Temperature coefficient			±0.02	%/°C
Ripple & Noise	At 20MHz Bandwidth		100	mV p-p
Capacitive load			220	µF
Rising time		50		ms

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	80		KHz
Operating temperature	Without derating	-40 to +85		°C
Storage temperature		-55 to +125		°C
Case temperature			100	°C
Cooling	Free air convection			
Humidity	Non condensing		95	%
Case material		Non-conductive black plastic		
Weight		1.8		g
Dimensions		0.46 x 0.24 x 0.40 inches	11.68 x 6.00 x 10.15 mm	
MTBF		>1 191 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

Safety Specifications

Standards	
Agency approvals	CE
Safety	EN55022 (Conducted and Radiated Emissions) class B, EN55024 (Noise Immunity), IEC61000-4-2(ESD), IEC61000-4-3(Radiated immunity)

Pin Out Specifications

Pin	Single
1	- V Input
2	+V Input
3	- V Output
4	+V Output

Dimensions



