

**FEATURES:**

- RoHS compliant
- 12 Pin SIP Package
- Low ripple and noise
- High efficiency up to 72%
- Operating temperature -25°C to + 85°C
- Input / Output Isolation 1000, 3000 or 5200VDC
- Continuous Short Circuit Protection



Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Capacitive Load, Max (μF)	Input Current Full No Load (mA)		Isolation	Efficiency (%)
AM2F-0503SZ	4.5-5.5	3.3	500	330	559	68	1000	59
AM2F-0505SZ	4.5-5.5	5	400	330	588	45	1000	68
AM2F-0507SZ	4.5-5.5	7.2	278	330	625	90	1000	64
AM2F-0509SZ	4.5-5.5	9	222	330	563	75	1000	71
AM2F-0512SZ	4.5-5.5	12	167	330	597	80	1000	67
AM2F-0515SZ	4.5-5.5	15	134	330	571	95	1000	70
AM2F-0518SZ	4.5-5.5	18	111	330	580	95	1000	69
AM2F-0524SZ	4.5-5.5	24	83	330	597	76	1000	67
AM2F-1203SZ	10.8-13.2	3.3	500	330	250	30	1000	55
AM2F-1205SZ	10.8-13.2	5	400	330	249	20	1000	67
AM2F-1207SZ	10.8-13.2	7.2	278	330	253	30	1000	66
AM2F-1209SZ	10.8-13.2	9	222	330	253	45	1000	66
AM2F-1212SZ	10.8-13.2	12	167	330	249	45	1000	67
AM2F-1215SZ	10.8-13.2	15	134	330	245	45	1000	68
AM2F-1218SZ	10.8-13.2	18	111	330	256	50	1000	65
AM2F-1224SZ	10.8-13.2	24	83	330	231	35	1000	72
AM2F-2403SZ	21.6-26.4	3.3	500	330	127	25	1000	54
AM2F-2405SZ	21.6-26.4	5	400	330	132	25	1000	63
AM2F-2407SZ	21.6-26.4	7.2	278	330	123	22	1000	68
AM2F-2409SZ	21.6-26.4	9	222	330	117	20	1000	71
AM2F-2412SZ	21.6-26.4	12	167	330	119	20	1000	70
AM2F-2415SZ	21.6-26.4	15	134	330	124	25	1000	67
AM2F-2418SZ	21.6-26.4	18	111	330	117	20	1000	71
AM2F-2424SZ	21.6-26.4	24	83	330	116	20	1000	72
AM2F-0503SH30Z	4.5-5.5	3.3	500	330	559	68	3000	59
AM2F-0505SH30Z	4.5-5.5	5	400	330	588	45	3000	68
AM2F-0507SH30Z	4.5-5.5	7.2	278	330	625	90	3000	64
AM2F-0509SH30Z	4.5-5.5	9	222	330	563	75	3000	71
AM2F-0512SH30Z	4.5-5.5	12	167	330	597	80	3000	67
AM2F-0515SH30Z	4.5-5.5	15	134	330	571	95	3000	70
AM2F-0518SH30Z	4.5-5.5	18	111	330	580	95	3000	69
AM2F-0524SH30Z	4.5-5.5	24	83	330	597	76	3000	67
AM2F-1203SH30Z	10.8-13.2	3.3	500	330	250	30	3000	55
AM2F-1205SH30Z	10.8-13.2	5	400	330	249	20	3000	67
AM2F-1207SH30Z	10.8-13.2	7.2	278	330	253	30	3000	66
AM2F-1209SH30Z	10.8-13.2	9	222	330	253	45	3000	66
AM2F-1212SH30Z	10.8-13.2	12	167	330	249	45	3000	67
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AM2F-1218SH30Z	10.8-13.2	18	111	330	256	50	3000	65
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AM2F-2403SH30Z	21.6-26.4	3.3	500	330	127	25	3000	54
AM2F-2405SH30Z	21.6-26.4	5	400	330	132	25	3000	63
AM2F-2407SH30Z	21.6-26.4	7.2	278	330	123	22	3000	68
AM2F-2409SH30Z	21.6-26.4	9	222	330	117	20	3000	71
AM2F-2412SH30Z	21.6-26.4	12	167	330	119	20	3000	70

Models

Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Capacitive Load, Max (μF)	Input Current Full No Load (mA)		Isolation	Efficiency (%)
AM2F-2415SH30Z	21.6-26.4	15	134	330	124	25	3000	67
AM2F-2418SH30Z	21.6-26.4	18	111	330	117	20	3000	71
AM2F-2424SH30Z	21.6-26.4	24	83	330	116	20	3000	72
AM2F-0503SH52Z	4.5-5.5	3.3	500	330	559	68	5200	59
AM2F-0505SH52Z	4.5-5.5	5	400	330	588	45	5200	68
AM2F-0507SH52Z	4.5-5.5	7.2	278	330	625	90	5200	64
AM2F-0509SH52Z	4.5-5.5	9	222	330	563	75	5200	71
AM2F-0512SH52Z	4.5-5.5	12	167	330	597	80	5200	67
AM2F-0515SH52Z	4.5-5.5	15	134	330	571	95	5200	70
AM2F-0518SH52Z	4.5-5.5	18	111	330	580	95	5200	69
AM2F-0524SH52Z	4.5-5.5	24	83	330	597	76	5200	67
AM2F-1203SH52Z	10.8-13.2	3.3	500	330	250	30	5200	55
AM2F-1205SH52Z	10.8-13.2	5	400	330	249	20	5200	67
AM2F-1207SH52Z	10.8-13.2	7.2	278	330	253	30	5200	66
AM2F-1209SH52Z	10.8-13.2	9	222	330	253	45	5200	66
AM2F-1212SH52Z	10.8-13.2	12	167	330	249	45	5200	67
AM2F-1215SH52Z	10.8-13.2	15	134	330	245	45	5200	68
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AM2F-2412SH52Z	21.6-26.4	12	167	330	119	20	5200	70
AM2F-2415SH52Z	21.6-26.4	15	134	330	124	25	5200	67
AM2F-2418SH52Z	21.6-26.4	18	111	330	117	20	5200	71
AM2F-2424SH52Z	21.6-26.4	24	83	330	116	20	5200	72

Input Specifications

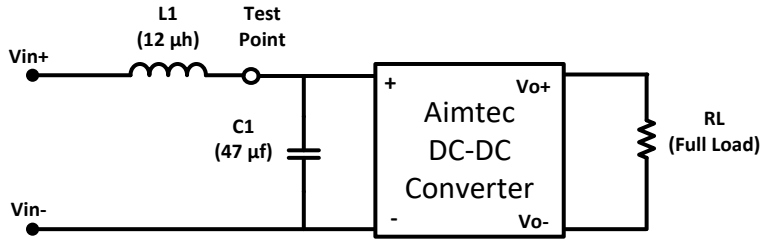
Parameters	Nominal	Typical	Maximum	Units
Voltage range	5 12 24	4.5-5.5 10.8-13.2 21.6-25.4		VDC
Filter	Capacitor			
Absolute Maximum Rating	5 Vin 12 Vin 24 Vin	0-7 0-15 0-28		VDC
Peak Input Voltage time		100		ms
Input Reflected Ripple Current		20		mA p-p

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec		1000, 3000, or 5200	VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

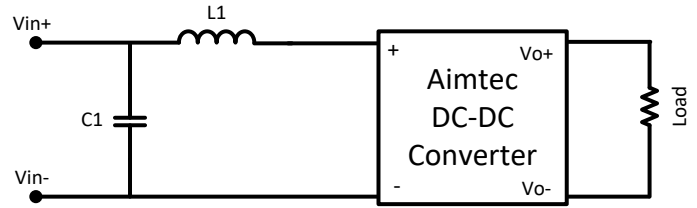
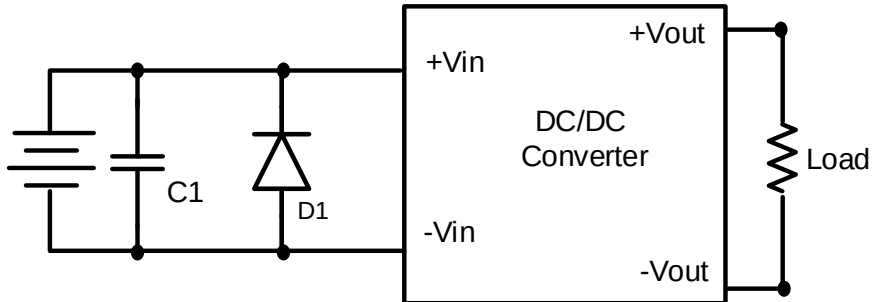
Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±2	%
Short Circuit protection	Continuous			
Short Circuit restart	Auto-recovery			
Line voltage regulation			±0.5	%
Load voltage regulation	Load 0 – 100%		±0.5	%
Load voltage regulation 3.3V output	Load 0 – 100%		±1.5	%



* Tested at full load, and nominal input

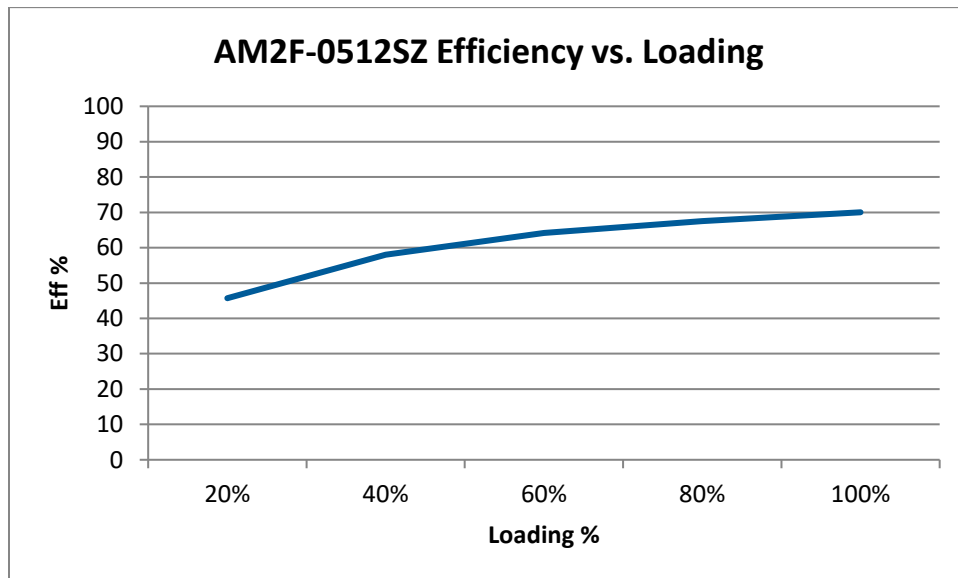
EFT/Surge Application circuit



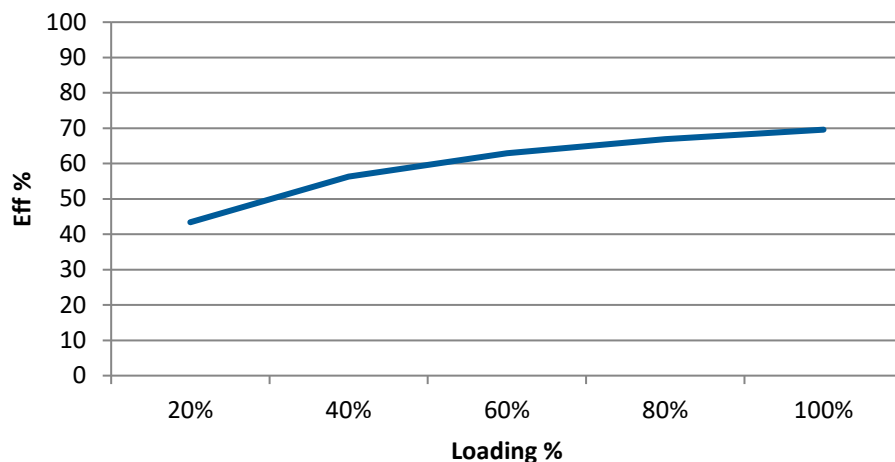
C1	L1
220μF/100V	12μH

Vin	C1	D1
5VDC	1000μF/50V	TVS, 9V
12VDC		TVS, 14V
24VDC		TVS, 26V

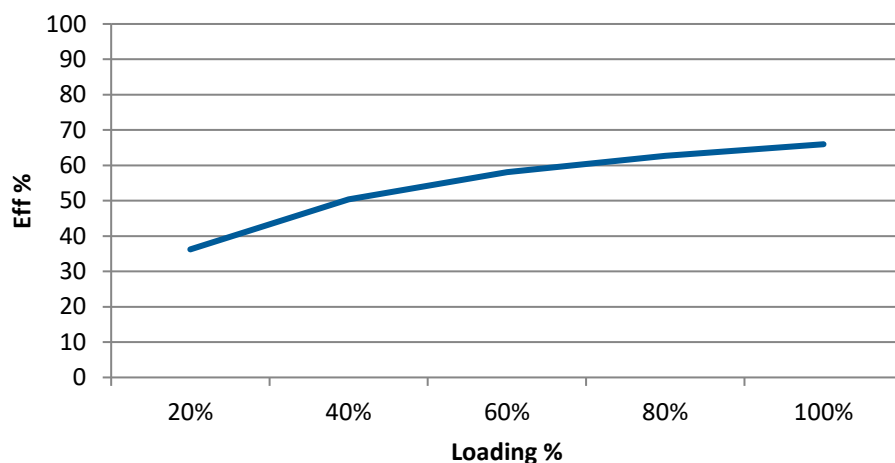
Typical Efficiency Example Charts



AM2F-1212SZ Efficiency vs. Loading



AM2F-2412SZ Efficiency vs. Loading



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