



Your Power Partner

Series AM1D-Z

1 Watt | DC-DC Converter



FEATURES:

- RoHS compliant
- High efficiency up to 80%
- Low profile plastic package
- 7 pin SIP package
- Operating temperature -40°C to + 85°C
- Short circuit protection
- Pin compatible with multiple manufacturers
- Input / Output Isolation 1000, 3000, 4000, 5200 & 6000 VDC

Models Single output



Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load(μF)	Efficiency
AM1D-0303SZ	2.97-3.63	3.3	300	1000	220	76
AM1D-0305SZ	2.97-3.63	5	200	1000	220	78
AM1D-0307SZ	2.97-3.63	7.2	140	1000	220	78
AM1D-0309SZ	2.97-3.63	9	110	1000	220	80
AM1D-0312SZ	2.97-3.63	12	83	1000	220	77
AM1D-0315SZ	2.97-3.63	15	70	1000	220	78
AM1D-0318SZ	2.97-3.63	18	55	1000	220	78
AM1D-0324SZ	2.97-3.63	24	40	1000	220	75
AM1D-0503SZ	4.5-5.5	3.3	300	1000	220	74
AM1D-0505SZ	4.5-5.5	5	200	1000	220	80
AM1D-0507SZ	4.5-5.5	7.2	140	1000	220	78
AM1D-0509SZ	4.5-5.5	9	110	1000	220	75
AM1D-0512SZ	4.5-5.5	12	83	1000	220	77
AM1D-0515SZ	4.5-5.5	15	70	1000	220	77
AM1D-0518SZ	4.5-5.5	18	55	1000	220	78
AM1D-0524SZ	4.5-5.5	24	40	1000	220	75
AM1D-1203SZ	10.8-13.2	3.3	300	1000	220	74
AM1D-1205SZ	10.8-13.2	5	200	1000	220	79
AM1D-1207SZ	10.8-13.2	7.2	140	1000	220	74
AM1D-1209SZ	10.8-13.2	9	110	1000	220	75
AM1D-1212SZ	10.8-13.2	12	83	1000	220	79
AM1D-1215SZ	10.8-13.2	15	70	1000	220	79
AM1D-1218SZ	10.8-13.2	18	55	1000	220	78
AM1D-1224SZ	10.8-13.2	24	40	1000	220	76
AM1D-1503SZ	13.5-16.5	3.3	300	1000	220	81
AM1D-1505SZ	13.5-16.5	5	200	1000	220	81
AM1D-1507SZ	13.5-16.5	7.2	140	1000	220	81
AM1D-1509SZ	13.5-16.5	9	110	1000	220	80
AM1D-1512SZ	13.5-16.5	12	83	1000	220	80
AM1D-1515SZ	13.5-16.5	15	70	1000	220	79
AM1D-1518SZ	13.5-16.5	18	55	1000	220	82
AM1D-1524SZ	13.5-16.5	24	40	1000	220	76
AM1D-2403SZ	21.6-26.4	3.3	300	1000	220	65
AM1D-2405SZ	21.6-26.4	5	200	1000	220	72
AM1D-2407SZ	21.6-26.4	7.2	140	1000	220	76
AM1D-2409SZ	21.6-26.4	9	110	1000	220	75
AM1D-2412SZ	21.6-26.4	12	83	1000	220	79
AM1D-2415SZ	21.6-26.4	15	70	1000	220	79
AM1D-2418SZ	21.6-26.4	18	55	1000	220	78
AM1D-2424SZ	21.6-26.4	24	40	1000	220	75
AM1D-4803SZ	43.2-52.5	3.3	300	1000	220	65
AM1D-4805SZ	43.2-52.5	5	200	1000	220	72
AM1D-4807SZ	43.2-52.5	7.2	140	1000	220	76
AM1D-4809SZ	43.2-52.5	9	110	1000	220	75
AM1D-4812SZ	43.2-52.5	12	83	1000	220	79
AM1D-4815SZ	43.2-52.5	15	70	1000	220	79
AM1D-4818SZ	43.2-52.5	18	55	1000	220	78

Models

Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load(uF)	Efficiency
AM1D-4824SZ	43.2-52.5	24	40	1000	220	75
AM1D-0303SH30Z	2.97-3.63	3.3	300	3000	220	76
AM1D-0305SH30Z	2.97-3.63	5	200	3000	220	78
AM1D-0307SH30Z	2.97-3.63	7.2	140	3000	220	78
AM1D-0309SH30Z	2.97-3.63	9	110	3000	220	80
AM1D-0312SH30Z	2.97-3.63	12	83	3000	220	77
AM1D-0315SH30Z	2.97-3.63	15	70	3000	220	78
AM1D-0318SH30Z	2.97-3.63	18	55	3000	220	78
AM1D-0324SH30Z	2.97-3.63	24	40	3000	220	75
AM1D-0503SH30Z	4.5-5.5	3.3	300	3000	220	74
AM1D-0505SH30Z	4.5-5.5	5	200	3000	220	80
AM1D-0507SH30Z	4.5-5.5	7.2	140	3000	220	78
AM1D-0509SH30Z	4.5-5.5	9	110	3000	220	75
AM1D-0512SH30Z	4.5-5.5	12	83	3000	220	77
AM1D-0515SH30Z	4.5-5.5	15	70	3000	220	77
AM1D-0518SH30Z	4.5-5.5	18	55	3000	220	78
AM1D-0524SH30Z	4.5-5.5	24	40	3000	220	75
AM1D-1203SH30Z	10.8-13.2	3.3	300	3000	220	74
AM1D-1205SH30Z	10.8-13.2	5	200	3000	220	79
AM1D-1207SH30Z	10.8-13.2	7.2	140	3000	220	74
AM1D-1209SH30Z	10.8-13.2	9	110	3000	220	76
AM1D-1212SH30Z	10.8-13.2	12	83	3000	220	80
AM1D-1215SH30Z	10.8-13.2	15	70	3000	220	80
AM1D-1218SH30Z	10.8-13.2	18	55	3000	220	78
AM1D-1224SH30Z	10.8-13.2	24	40	3000	220	76
AM1D-1503SH30Z	13.5-16.5	3.3	300	3000	220	81
AM1D-1505SH30Z	13.5-16.5	5	200	3000	220	81
AM1D-1507SH30Z	13.5-16.5	7.2	140	3000	220	81
AM1D-1509SH30Z	13.5-16.5	9	110	3000	220	80
AM1D-1512SH30Z	13.5-16.5	12	83	3000	220	80
AM1D-1515SH30Z	13.5-16.5	15	70	3000	220	79
AM1D-1518SH30Z	13.5-16.5	18	55	3000	220	82
AM1D-1524SH30Z	13.5-16.5	24	40	3000	220	76
AM1D-2403SH30Z	21.6-26.4	3.3	300	3000	220	74
AM1D-2405SH30Z	21.6-26.4	5	200	3000	220	80
AM1D-2407SH30Z	21.6-26.4	7.2	140	3000	220	71
AM1D-2409SH30Z	21.6-26.4	9	110	3000	220	75
AM1D-2412SH30Z	21.6-26.4	12	83	3000	220	78
AM1D-2415SH30Z	21.6-26.4	15	70	3000	220	78
AM1D-2418SH30Z	21.6-26.4	18	55	3000	220	78
AM1D-2424SH30Z	21.6-26.4	24	40	3000	220	75
AM1D-4803SH30Z	43.2-52.5	3.3	300	3000	220	65
AM1D-4805SH30Z	43.2-52.5	5	200	3000	220	72
AM1D-4807SH30Z	43.2-52.5	7.2	140	3000	220	76
AM1D-4809SH30Z	43.2-52.5	9	110	3000	220	75
AM1D-4812SH30Z	43.2-52.5	12	83	3000	220	79
AM1D-4815SH30Z	43.2-52.5	15	70	3000	220	79
AM1D-4818SH30Z	43.2-52.5	18	55	3000	220	78
AM1D-4824SH30Z	43.2-52.5	24	40	3000	220	75
AM1D-0303SH40Z	2.97-3.63	3.3	300	4000	220	76
AM1D-0305SH40Z	2.97-3.63	5	200	4000	220	78
AM1D-0307SH40Z	2.97-3.63	7.2	140	4000	220	78
AM1D-0309SH40Z	2.97-3.63	9	110	4000	220	80

Models

Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load(uF)	Efficiency
AM1D-0312SH40Z	2.97-3.63	12	83	4000	220	77
AM1D-0315SH40Z	2.97-3.63	15	70	4000	220	78
AM1D-0318SH40Z	2.97-3.63	18	55	4000	220	78
AM1D-0324SH40Z	2.97-3.63	24	40	4000	220	75
AM1D-0503SH40Z	4.5-5.5	3.3	300	4000	220	74
AM1D-0505SH40Z	4.5-5.5	5	200	4000	220	80
AM1D-0507SH40Z	4.5-5.5	7.2	140	4000	220	78
AM1D-0509SH40Z	4.5-5.5	9	110	4000	220	75
AM1D-0512SH40Z	4.5-5.5	12	83	4000	220	77
AM1D-0515SH40Z	4.5-5.5	15	70	4000	220	77
AM1D-0518SH40Z	4.5-5.5	18	55	4000	220	78
AM1D-0524SH40Z	4.5-5.5	24	40	4000	220	75
AM1D-1203SH40Z	10.8-13.2	3.3	300	4000	220	74
AM1D-1205SH40Z	10.8-13.2	5	200	4000	220	79
AM1D-1207SH40Z	10.8-13.2	7.2	140	4000	220	74
AM1D-1209SH40Z	10.8-13.2	9	110	4000	220	75
AM1D-1212SH40Z	10.8-13.2	12	83	4000	220	79
AM1D-1215SH40Z	10.8-13.2	15	70	4000	220	79
AM1D-1218SH40Z	10.8-13.2	18	55	4000	220	78
AM1D-1224SH40Z	10.8-13.2	24	40	4000	220	76
AM1D-1503SH40Z	13.5-16.5	3.3	300	4000	220	81
AM1D-1505SH40Z	13.5-16.5	5	200	4000	220	81
AM1D-1507SH40Z	13.5-16.5	7.2	140	4000	220	81
AM1D-1509SH40Z	13.5-16.5	9	110	4000	220	80
AM1D-1512SH40Z	13.5-16.5	12	83	4000	220	80
AM1D-1515SH40Z	13.5-16.5	15	70	4000	220	79
AM1D-1518SH40Z	13.5-16.5	18	55	4000	220	82
AM1D-1524SH40Z	13.5-16.5	24	40	4000	220	76
AM1D-2403SH40Z	21.6-26.4	3.3	300	4000	220	65
AM1D-2405SH40Z	21.6-26.4	5	200	4000	220	72
AM1D-2407SH40Z	21.6-26.4	7.2	140	4000	220	76
AM1D-2409SH40Z	21.6-26.4	9	110	4000	220	75
AM1D-2412SH40Z	21.6-26.4	12	83	4000	220	79
AM1D-2415SH40Z	21.6-26.4	15	70	4000	220	79
AM1D-2418SH40Z	21.6-26.4	18	55	4000	220	78
AM1D-2424SH40Z	21.6-26.4	24	40	4000	220	75
AM1D-4803SH40Z	43.2-52.5	3.3	300	4000	220	65
AM1D-4805SH40Z	43.2-52.5	5	200	4000	220	72
AM1D-4807SH40Z	43.2-52.5	7.2	140	4000	220	76
AM1D-4809SH40Z	43.2-52.5	9	110	4000	220	75
AM1D-4812SH40Z	43.2-52.5	12	83	4000	220	79
AM1D-4815SH40Z	43.2-52.5	15	70	4000	220	79
AM1D-4818SH40Z	43.2-52.5	18	55	4000	220	78
AM1D-4824SH40Z	43.2-52.5	24	40	4000	220	75
AM1D-0303SH52Z	2.97-3.63	3.3	300	5200	220	76
AM1D-0305SH52Z	2.97-3.63	5	200	5200	220	78
AM1D-0307SH52Z	2.97-3.63	7.2	140	5200	220	78
AM1D-0309SH52Z	2.97-3.63	9	110	5200	220	80
AM1D-0312SH52Z	2.97-3.63	12	83	5200	220	77
AM1D-0315SH52Z	2.97-3.63	15	70	5200	220	78
AM1D-0318SH52Z	2.97-3.63	18	55	5200	220	78
AM1D-0324SH52Z	2.97-3.63	24	40	5200	220	75
AM1D-0503SH52Z	4.5-5.5	3.3	300	5200	220	74
AM1D-0505SH52Z	4.5-5.5	5	200	5200	220	80

Models

Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load(uF)	Efficiency
AM1D-0507SH52Z	4.5-5.5	7.2	140	5200	220	78
AM1D-0509SH52Z	4.5-5.5	9	110	5200	220	75
AM1D-0512SH52Z	4.5-5.5	12	83	5200	220	77
AM1D-0515SH52Z	4.5-5.5	15	70	5200	220	77
AM1D-0518SH52Z	4.5-5.5	18	55	5200	220	78
AM1D-0524SH52Z	4.5-5.5	24	40	5200	220	75
AM1D-1203SH52Z	10.8-13.2	3.3	300	5200	220	74
AM1D-1205SH52Z	10.8-13.2	5	200	5200	220	79
AM1D-1207SH52Z	10.8-13.2	7.2	140	5200	220	74
AM1D-1209SH52Z	10.8-13.2	9	110	5200	220	76
AM1D-1212SH52Z	10.8-13.2	12	83	5200	220	80
AM1D-1215SH52Z	10.8-13.2	15	70	5200	220	80
AM1D-1218SH52Z	10.8-13.2	18	55	5200	220	78
AM1D-1224SH52Z	10.8-13.2	24	40	5200	220	76
AM1D-1503SH52Z	13.5-16.5	3.3	300	5200	220	81
AM1D-1505SH52Z	13.5-16.5	5	200	5200	220	81
AM1D-1507SH52Z	13.5-16.5	7.2	140	5200	220	81
AM1D-1509SH52Z	13.5-16.5	9	110	5200	220	80
AM1D-1512SH52Z	13.5-16.5	12	83	5200	220	80
AM1D-1515SH52Z	13.5-16.5	15	70	5200	220	79
AM1D-1518SH52Z	13.5-16.5	18	55	5200	220	82
AM1D-1524SH52Z	13.5-16.5	24	40	5200	220	76
AM1D-2403SH52Z	21.6-26.4	3.3	300	5200	220	74
AM1D-2405SH52Z	21.6-26.4	5	200	5200	220	80
AM1D-2407SH52Z	21.6-26.4	7.2	140	5200	220	71
AM1D-2409SH52Z	21.6-26.4	9	110	5200	220	75
AM1D-2412SH52Z	21.6-26.4	12	83	5200	220	78
AM1D-2415SH52Z	21.6-26.4	15	70	5200	220	78
AM1D-2418SH52Z	21.6-26.4	18	55	5200	220	78
AM1D-2424SH52Z	21.6-26.4	24	40	5200	220	75
AM1D-4803SH52Z	43.2-52.5	3.3	300	5200	220	65
AM1D-4805SH52Z	43.2-52.5	5	200	5200	220	72
AM1D-4807SH52Z	43.2-52.5	7.2	140	5200	220	76
AM1D-4809SH52Z	43.2-52.5	9	110	5200	220	75
AM1D-4812SH52Z	43.2-52.5	12	83	5200	220	79
AM1D-4815SH52Z	43.2-52.5	15	70	5200	220	79
AM1D-4818SH52Z	43.2-52.5	18	55	5200	220	78
AM1D-4824SH52Z	43.2-52.5	24	40	5200	220	75
AM1D-0303SH60Z	2.97-3.63	3.3	300	6000	220	76
AM1D-0305SH60Z	2.97-3.63	5	200	6000	220	78
AM1D-0307SH60Z	2.97-3.63	7.2	140	6000	220	78
AM1D-0309SH60Z	2.97-3.63	9	110	6000	220	80
AM1D-0312SH60Z	2.97-3.63	12	83	6000	220	77
AM1D-0315SH60Z	2.97-3.63	15	70	6000	220	78
AM1D-0318SH60Z	2.97-3.63	18	55	6000	220	78
AM1D-0324SH60Z	2.97-3.63	24	40	6000	220	75
AM1D-0503SH60Z	4.5-5.5	3.3	300	6000	220	74
AM1D-0505SH60Z	4.5-5.5	5	200	6000	220	80
AM1D-0507SH60Z	4.5-5.5	7.2	140	6000	220	78
AM1D-0509SH60Z	4.5-5.5	9	110	6000	220	75
AM1D-0512SH60Z	4.5-5.5	12	83	6000	220	77
AM1D-0515SH60Z	4.5-5.5	15	70	6000	220	77
AM1D-0518SH60Z	4.5-5.5	18	55	6000	220	78

Models

Single output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load(uF)	Efficiency
AM1D-0524SH60Z	4.5-5.5	24	40	6000	220	75
AM1D-1203SH60Z	10.8-13.2	3.3	300	6000	220	74
AM1D-1205SH60Z	10.8-13.2	5	200	6000	220	79
AM1D-1207SH60Z	10.8-13.2	7.2	140	6000	220	74
AM1D-1209SH60Z	10.8-13.2	9	110	6000	220	76
AM1D-1212SH60Z	10.8-13.2	12	83	6000	220	80
AM1D-1215SH60Z	10.8-13.2	15	70	6000	220	80
AM1D-1218SH60Z	10.8-13.2	18	55	6000	220	78
AM1D-1224SH60Z	10.8-13.2	24	40	6000	220	76
AM1D-1503SH60Z	13.5-16.5	3.3	300	6000	220	81
AM1D-1505SH60Z	13.5-16.5	5	200	6000	220	81
AM1D-1507SH60Z	13.5-16.5	7.2	140	6000	220	81
AM1D-1509SH60Z	13.5-16.5	9	110	6000	220	80
AM1D-1512SH60Z	13.5-16.5	12	83	6000	220	80
AM1D-1515SH60Z	13.5-16.5	15	70	6000	220	79
AM1D-1518SH60Z	13.5-16.5	18	55	6000	220	82
AM1D-1524SH60Z	13.5-16.5	24	40	6000	220	76
AM1D-2403SH60Z	21.6-26.4	3.3	300	6000	220	74
AM1D-2405SH60Z	21.6-26.4	5	200	6000	220	80
AM1D-2407SH60Z	21.6-26.4	7.2	140	6000	220	71
AM1D-2409SH60Z	21.6-26.4	9	110	6000	220	75
AM1D-2412SH60Z	21.6-26.4	12	83	6000	220	78
AM1D-2415SH60Z	21.6-26.4	15	70	6000	220	78
AM1D-2418SH60Z	21.6-26.4	18	55	6000	220	78
AM1D-2424SH60Z	21.6-26.4	24	40	6000	220	75
AM1D-4803SH60Z	43.2-52.5	3.3	300	6000	220	65
AM1D-4805SH60Z	43.2-52.5	5	200	6000	220	72
AM1D-4807SH60Z	43.2-52.5	7.2	140	6000	220	76
AM1D-4809SH60Z	43.2-52.5	9	110	6000	220	75
AM1D-4812SH60Z	43.2-52.5	12	83	6000	220	79
AM1D-4815SH60Z	43.2-52.5	15	70	6000	220	79
AM1D-4818SH60Z	43.2-52.5	18	55	6000	220	78
AM1D-4824SH60Z	43.2-52.5	24	40	6000	220	75

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1D-0303DZ	2.97-3.63	±3.3	±150	1000	±100	66
AM1D-0305DZ	2.97-3.63	±5	±100	1000	±100	70
AM1D-0307DZ	2.97-3.63	±7.2	±70	1000	±100	74
AM1D-0309DZ	2.97-3.63	±9	±55	1000	±100	75
AM1D-0312DZ	2.97-3.63	±12	±42	1000	±100	76
AM1D-0315DZ	2.97-3.63	±15	±35	1000	±100	78
AM1D-0318DZ	2.97-3.63	±18	±27	1000	±100	80
AM1D-0324DZ	2.97-3.63	±24	±20	1000	±100	78
AM1D-0503DZ	4.5-5.5	±3.3	±150	1000	±100	72
AM1D-0505DZ	4.5-5.5	±5	±100	1000	±100	75
AM1D-0507DZ	4.5-5.5	±7.2	±70	1000	±100	76
AM1D-0509DZ	4.5-5.5	±9	±55	1000	±100	80
AM1D-0512DZ	4.5-5.5	±12	±42	1000	±100	80

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1D-0515DZ	4.5-5.5	±15	±35	1000	±100	79
AM1D-0518DZ	4.5-5.5	±18	±27	1000	±100	76
AM1D-0524DZ	4.5-5.5	±24	±20	1000	±100	65
AM1D-1203DZ	10.8-13.2	±3.3	±150	1000	±100	72
AM1D-1205DZ	10.8-13.2	±5	±100	1000	±100	76
AM1D-1207DZ	10.8-13.2	±7.2	±70	1000	±100	75
AM1D-1209DZ	10.8-13.2	±9	±55	1000	±100	79
AM1D-1212DZ	10.8-13.2	±12	±42	1000	±100	79
AM1D-1215DZ	10.8-13.2	±15	±35	1000	±100	78
AM1D-1218DZ	10.8-13.2	±18	±27	1000	±100	75
AM1D-1224DZ	10.8-13.2	±24	±20	1000	±100	68
AM1D-1503DZ	13.5-16.5	±3.3	±150	1000	±100	74
AM1D-1505DZ	13.5-16.5	±5	±100	1000	±100	75
AM1D-1507DZ	13.5-16.5	±7.2	±70	1000	±100	75
AM1D-1509DZ	13.5-16.5	±9	±55	1000	±100	76
AM1D-1512DZ	13.5-16.5	±12	±42	1000	±100	77
AM1D-1515DZ	13.5-16.5	±15	±35	1000	±100	77
AM1D-1518DZ	13.5-16.5	±18	±27	1000	±100	77
AM1D-1524DZ	13.5-16.5	±24	±20	1000	±100	78
AM1D-2403DZ	21.6-26.4	±3.3	±150	1000	±100	72
AM1D-2405DZ	21.6-26.4	±5	±100	1000	±100	76
AM1D-2407DZ	21.6-26.4	±7.2	±70	1000	±100	74
AM1D-2409DZ	21.6-26.4	±9	±55	1000	±100	78
AM1D-2412DZ	21.6-26.4	±12	±42	1000	±100	78
AM1D-2415DZ	21.6-26.4	±15	±35	1000	±100	77
AM1D-2418DZ	21.6-26.4	±18	±27	1000	±100	74
AM1D-2424DZ	21.6-26.4	±24	±20	1000	±100	65
AM1D-4803DZ	43.2-52.5	±3.3	±150	1000	±100	72
AM1D-4805DZ	43.2-52.5	±5	±100	1000	±100	76
AM1D-4807DZ	43.2-52.5	±7.2	±70	1000	±100	74
AM1D-4809DZ	43.2-52.5	±9	±55	1000	±100	78
AM1D-4812DZ	43.2-52.5	±12	±42	1000	±100	78
AM1D-4815DZ	43.2-52.5	±15	±35	1000	±100	77
AM1D-4818DZ	43.2-52.5	±18	±27	1000	±100	74
AM1D-4824DZ	43.2-52.5	±24	±20	1000	±100	65
AM1D-0303DH30Z	2.97-3.63	±3.3	±150	3000	±100	66
AM1D-0305DH30Z	2.97-3.63	±5	±100	3000	±100	70
AM1D-0307DH30Z	2.97-3.63	±7.2	±70	3000	±100	74
AM1D-0309DH30Z	2.97-3.63	±9	±55	3000	±100	75
AM1D-0312DH30Z	2.97-3.63	±12	±42	3000	±100	76
AM1D-0315DH30Z	2.97-3.63	±15	±35	3000	±100	78
AM1D-0318DH30Z	2.97-3.63	±18	±27	3000	±100	80
AM1D-0324DH30Z	2.97-3.63	±24	±20	3000	±100	78
AM1D-0503DH30Z	4.5-5.5	±3.3	±150	3000	±100	72
AM1D-0505DH30Z	4.5-5.5	±5	±100	3000	±100	75
AM1D-0507DH30Z	4.5-5.5	±7.2	±70	3000	±100	76
AM1D-0509DH30Z	4.5-5.5	±9	±55	3000	±100	80
AM1D-0512DH30Z	4.5-5.5	±12	±42	3000	±100	80
AM1D-0515DH30Z	4.5-5.5	±15	±35	3000	±100	79
AM1D-0518DH30Z	4.5-5.5	±18	±27	3000	±100	76
AM1D-0524DH30Z	4.5-5.5	±24	±20	3000	±100	65
AM1D-1203DH30Z	10.8-13.2	±3.3	±150	3000	±100	72
AM1D-1205DH30Z	10.8-13.2	±5	±100	3000	±100	76
AM1D-1207DH30Z	10.8-13.2	±7.2	±70	3000	±100	75

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1D-1209DH30Z	10.8-13.2	±9	±55	3000	±100	79
AM1D-1212DH30Z	10.8-13.2	±12	±42	3000	±100	72
AM1D-1215DH30Z	10.8-13.2	±15	±35	3000	±100	75
AM1D-1218DH30Z	10.8-13.2	±18	±27	3000	±100	76
AM1D-1224DH30Z	10.8-13.2	±24	±20	3000	±100	80
AM1D-1503DH30Z	13.5-16.5	±3.3	±150	3000	±100	74
AM1D-1505DH30Z	13.5-16.5	±5	±100	3000	±100	75
AM1D-1507DH30Z	13.5-16.5	±7.2	±70	3000	±100	75
AM1D-1509DH30Z	13.5-16.5	±9	±55	3000	±100	76
AM1D-1512DH30Z	13.5-16.5	±12	±42	3000	±100	77
AM1D-1515DH30Z	13.5-16.5	±15	±35	3000	±100	77
AM1D-1518DH30Z	13.5-16.5	±18	±27	3000	±100	77
AM1D-1524DH30Z	13.5-16.5	±24	±20	3000	±100	78
AM1D-2403DH30Z	21.6-26.4	±3.3	±150	3000	±100	80
AM1D-2405DH30Z	21.6-26.4	±5	±100	3000	±100	79
AM1D-2407DH30Z	21.6-26.4	±7.2	±70	3000	±100	76
AM1D-2409DH30Z	21.6-26.4	±9	±55	3000	±100	65
AM1D-2412DH30Z	21.6-26.4	±12	±42	3000	±100	72
AM1D-2415DH30Z	21.6-26.4	±15	±35	3000	±100	76
AM1D-2418DH30Z	21.6-26.4	±18	±27	3000	±100	75
AM1D-2424DH30Z	21.6-26.4	±24	±20	3000	±100	79
AM1D-4803DH30Z	43.2-52.5	±3.3	±150	3000	±100	72
AM1D-4805DH30Z	43.2-52.5	±5	±100	3000	±100	76
AM1D-4807DH30Z	43.2-52.5	±7.2	±70	3000	±100	74
AM1D-4809DH30Z	43.2-52.5	±9	±55	3000	±100	78
AM1D-4812DH30Z	43.2-52.5	±12	±42	3000	±100	78
AM1D-4815DH30Z	43.2-52.5	±15	±35	3000	±100	77
AM1D-4818DH30Z	43.2-52.5	±18	±27	3000	±100	74
AM1D-4824DH30Z	43.2-52.5	±24	±20	3000	±100	65
AM1D-0303DH40Z	2.97-3.63	±3.3	±150	4000	±100	66
AM1D-0305DH40Z	2.97-3.63	±5	±100	4000	±100	70
AM1D-0307DH40Z	2.97-3.63	±7.2	±70	4000	±100	74
AM1D-0309DH40Z	2.97-3.63	±9	±55	4000	±100	75
AM1D-0312DH40Z	2.97-3.63	±12	±42	4000	±100	76
AM1D-0315DH40Z	2.97-3.63	±15	±35	4000	±100	78
AM1D-0318DH40Z	2.97-3.63	±18	±27	4000	±100	80
AM1D-0324DH40Z	2.97-3.63	±24	±20	4000	±100	78
AM1D-0503DH40Z	4.5-5.5	±3.3	±150	4000	±100	79
AM1D-0505DH40Z	4.5-5.5	±5	±100	4000	±100	78
AM1D-0507DH40Z	4.5-5.5	±7.2	±70	4000	±100	75
AM1D-0509DH40Z	4.5-5.5	±9	±55	4000	±100	68
AM1D-0512DH40Z	4.5-5.5	±12	±42	4000	±100	72
AM1D-0515DH40Z	4.5-5.5	±15	±35	4000	±100	76
AM1D-0518DH40Z	4.5-5.5	±18	±27	4000	±100	74
AM1D-0524DH40Z	4.5-5.5	±24	±20	4000	±100	78
AM1D-1203DH40Z	10.8-13.2	±3.3	±150	4000	±100	78
AM1D-1205DH40Z	10.8-13.2	±5	±100	4000	±100	77
AM1D-1207DH40Z	10.8-13.2	±7.2	±70	4000	±100	74
AM1D-1209DH40Z	10.8-13.2	±9	±55	4000	±100	65
AM1D-1212DH40Z	10.8-13.2	±12	±42	4000	±100	72
AM1D-1215DH40Z	10.8-13.2	±15	±35	4000	±100	75
AM1D-1218DH40Z	10.8-13.2	±18	±27	4000	±100	76
AM1D-1224DH40Z	10.8-13.2	±24	±20	4000	±100	80

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1D-1503DH40Z	13.5-16.5	±3.3	±150	4000	±100	74
AM1D-1505DH40Z	13.5-16.5	±5	±100	4000	±100	75
AM1D-1507DH40Z	13.5-16.5	±7.2	±70	4000	±100	75
AM1D-1509DH40Z	13.5-16.5	±9	±55	4000	±100	76
AM1D-1512DH40Z	13.5-16.5	±12	±42	4000	±100	77
AM1D-1515DH40Z	13.5-16.5	±15	±35	4000	±100	77
AM1D-1518DH40Z	13.5-16.5	±18	±27	4000	±100	77
AM1D-1524DH40Z	13.5-16.5	±24	±20	4000	±100	78
AM1D-2403DH40Z	21.6-26.4	±3.3	±150	4000	±100	80
AM1D-2405DH40Z	21.6-26.4	±5	±100	4000	±100	79
AM1D-2407DH40Z	21.6-26.4	±7.2	±70	4000	±100	76
AM1D-2409DH40Z	21.6-26.4	±9	±55	4000	±100	65
AM1D-2412DH40Z	21.6-26.4	±12	±42	4000	±100	72
AM1D-2415DH40Z	21.6-26.4	±15	±35	4000	±100	76
AM1D-2418DH40Z	21.6-26.4	±18	±27	4000	±100	75
AM1D-2424DH40Z	21.6-26.4	±24	±20	4000	±100	79
AM1D-4803DH40Z	43.2-52.5	±3.3	±150	4000	±100	72
AM1D-4805DH40Z	43.2-52.5	±5	±100	4000	±100	76
AM1D-4807DH40Z	43.2-52.5	±7.2	±70	4000	±100	74
AM1D-4809DH40Z	43.2-52.5	±9	±55	4000	±100	78
AM1D-4812DH40Z	43.2-52.5	±12	±42	4000	±100	78
AM1D-4815DH40Z	43.2-52.5	±15	±35	4000	±100	77
AM1D-4818DH40Z	43.2-52.5	±18	±27	4000	±100	74
AM1D-4824DH40Z	43.2-52.5	±24	±20	4000	±100	65
AM1D-0303DH52Z	2.97-3.63	±3.3	±150	5200	±100	66
AM1D-0305DH52Z	2.97-3.63	±5	±100	5200	±100	70
AM1D-0307DH52Z	2.97-3.63	±7.2	±70	5200	±100	74
AM1D-0309DH52Z	2.97-3.63	±9	±55	5200	±100	75
AM1D-0312DH52Z	2.97-3.63	±12	±42	5200	±100	76
AM1D-0315DH52Z	2.97-3.63	±15	±35	5200	±100	78
AM1D-0318DH52Z	2.97-3.63	±18	±27	5200	±100	80
AM1D-0324DH52Z	2.97-3.63	±24	±20	5200	±100	78
AM1D-0503DH52Z	4.5-5.5	±3.3	±150	5200	±100	65
AM1D-0505DH52Z	4.5-5.5	±5	±100	5200	±100	72
AM1D-0507DH52Z	4.5-5.5	±7.2	±70	5200	±100	68
AM1D-0509DH52Z	4.5-5.5	±9	±55	5200	±100	76
AM1D-0512DH52Z	4.5-5.5	±12	±42	5200	±100	80
AM1D-0515DH52Z	4.5-5.5	±15	±35	5200	±100	80
AM1D-0518DH52Z	4.5-5.5	±18	±27	5200	±100	68
AM1D-0524DH52Z	4.5-5.5	±24	±20	5200	±100	76
AM1D-1203DH52Z	10.8-13.2	±3.3	±150	5200	±100	65
AM1D-1205DH52Z	10.8-13.2	±5	±100	5200	±100	72
AM1D-1207DH52Z	10.8-13.2	±7.2	±70	5200	±100	75
AM1D-1209DH52Z	10.8-13.2	±9	±55	5200	±100	75
AM1D-1212DH52Z	10.8-13.2	±12	±42	5200	±100	79
AM1D-1215DH52Z	10.8-13.2	±15	±35	5200	±100	79
AM1D-1218DH52Z	10.8-13.2	±18	±27	5200	±100	75
AM1D-1224DH52Z	10.8-13.2	±24	±20	5200	±100	75
AM1D-1503DH52Z	13.5-16.5	±3.3	±150	5200	±100	74
AM1D-1505DH52Z	13.5-16.5	±5	±100	5200	±100	75
AM1D-1507DH52Z	13.5-16.5	±7.2	±70	5200	±100	75
AM1D-1509DH52Z	13.5-16.5	±9	±55	5200	±100	76
AM1D-1512DH52Z	13.5-16.5	±12	±42	5200	±100	77
AM1D-1515DH52Z	13.5-16.5	±15	±35	5200	±100	77

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1D-1518DH52Z	13.5-16.5	±18	±27	5200	±100	77
AM1D-1524DH52Z	13.5-16.5	±24	±20	5200	±100	78
AM1D-2403DH52Z	21.6-26.4	±3.3	±150	5200	±100	65
AM1D-2405DH52Z	21.6-26.4	±5	±100	5200	±100	72
AM1D-2407DH52Z	21.6-26.4	±7.2	±70	5200	±100	75
AM1D-2409DH52Z	21.6-26.4	±9	±55	5200	±100	74
AM1D-2412DH52Z	21.6-26.4	±12	±42	5200	±100	78
AM1D-2415DH52Z	21.6-26.4	±15	±35	5200	±100	78
AM1D-2418DH52Z	21.6-26.4	±18	±27	5200	±100	75
AM1D-2424DH52Z	21.6-26.4	±24	±20	5200	±100	74
AM1D-4803DH52Z	43.2-52.5	±3.3	±150	5200	±100	72
AM1D-4805DH52Z	43.2-52.5	±5	±100	5200	±100	76
AM1D-4807DH52Z	43.2-52.5	±7.2	±70	5200	±100	74
AM1D-4809DH52Z	43.2-52.5	±9	±55	5200	±100	78
AM1D-4812DH52Z	43.2-52.5	±12	±42	5200	±100	78
AM1D-4815DH52Z	43.2-52.5	±15	±35	5200	±100	77
AM1D-4818DH52Z	43.2-52.5	±18	±27	5200	±100	74
AM1D-4824DH52Z	43.2-52.5	±24	±20	5200	±100	65
AM1D-0303DH60Z	2.97-3.63	±3.3	±150	6000	±100	66
AM1D-0305DH60Z	2.97-3.63	±5	±100	6000	±100	70
AM1D-0307DH60Z	2.97-3.63	±7.2	±70	6000	±100	74
AM1D-0309DH60Z	2.97-3.63	±9	±55	6000	±100	75
AM1D-0312DH60Z	2.97-3.63	±12	±42	6000	±100	76
AM1D-0315DH60Z	2.97-3.63	±15	±35	6000	±100	78
AM1D-0318DH60Z	2.97-3.63	±18	±27	6000	±100	80
AM1D-0324DH60Z	2.97-3.63	±24	±20	6000	±100	78
AM1D-0503DH60Z	4.5-5.5	±3.3	±150	6000	±100	65
AM1D-0505DH60Z	4.5-5.5	±5	±100	6000	±100	72
AM1D-0507DH60Z	4.5-5.5	±7.2	±70	6000	±100	68
AM1D-0509DH60Z	4.5-5.5	±9	±55	6000	±100	76
AM1D-0512DH60Z	4.5-5.5	±12	±42	6000	±100	80
AM1D-0515DH60Z	4.5-5.5	±15	±35	6000	±100	80
AM1D-0518DH60Z	4.5-5.5	±18	±27	6000	±100	68
AM1D-0524DH60Z	4.5-5.5	±24	±20	6000	±100	76
AM1D-1203DH60Z	10.8-13.2	±3.3	±150	6000	±100	65
AM1D-1205DH60Z	10.8-13.2	±5	±100	6000	±100	72
AM1D-1207DH60Z	10.8-13.2	±7.2	±70	6000	±100	75
AM1D-1209DH60Z	10.8-13.2	±9	±55	6000	±100	75
AM1D-1212DH60Z	10.8-13.2	±12	±42	6000	±100	79
AM1D-1215DH60Z	10.8-13.2	±15	±35	6000	±100	79
AM1D-1218DH60Z	10.8-13.2	±18	±27	6000	±100	75
AM1D-1224DH60Z	10.8-13.2	±24	±20	6000	±100	75
AM1D-1503DH60Z	13.5-16.5	±3.3	±150	6000	±100	74
AM1D-1505DH60Z	13.5-16.5	±5	±100	6000	±100	75
AM1D-1507DH60Z	13.5-16.5	±7.2	±70	6000	±100	75
AM1D-1509DH60Z	13.5-16.5	±9	±55	6000	±100	76
AM1D-1512DH60Z	13.5-16.5	±12	±42	6000	±100	77
AM1D-1515DH60Z	13.5-16.5	±15	±35	6000	±100	77
AM1D-1518DH60Z	13.5-16.5	±18	±27	6000	±100	77
AM1D-1524DH60Z	13.5-16.5	±24	±20	6000	±100	78
AM1D-2403DH60Z	21.6-26.4	±3.3	±150	6000	±100	65
AM1D-2405DH60Z	21.6-26.4	±5	±100	6000	±100	72
AM1D-2407DH60Z	21.6-26.4	±7.2	±70	6000	±100	75

Models

Dual output (continued)

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1D-2409DH60Z	21.6-26.4	±9	±55	6000	±100	74
AM1D-2412DH60Z	21.6-26.4	±12	±42	6000	±100	78
AM1D-2415DH60Z	21.6-26.4	±15	±35	6000	±100	78
AM1D-2418DH60Z	21.6-26.4	±18	±27	6000	±100	75
AM1D-2424DH60Z	21.6-26.4	±24	±20	6000	±100	74
AM1D-4803DH60Z	43.2-52.5	±3.3	±150	6000	±100	72
AM1D-4805DH60Z	43.2-52.5	±5	±100	6000	±100	76
AM1D-4807DH60Z	43.2-52.5	±7.2	±70	6000	±100	74
AM1D-4809DH60Z	43.2-52.5	±9	±55	6000	±100	78
AM1D-4812DH60Z	43.2-52.5	±12	±42	6000	±100	78
AM1D-4815DH60Z	43.2-52.5	±15	±35	6000	±100	77
AM1D-4818DH60Z	43.2-52.5	±18	±27	6000	±100	74
AM1D-4824DH60Z	43.2-52.5	±24	±20	6000	±100	65

Models

Dual separated output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Max Capacitive Load (uF)	Efficiency (%)
AM1D-050303DZ	4.5-5.5	3.3/3.3	150/150	1000	100	75
AM1D-050505DZ	4.5-5.5	5/5	100/100	1000	100	72
AM1D-050707DZ	4.5-5.5	7.2/7.2	70/70	1000	100	73
AM1D-050909DZ	4.5-5.5	9/9	55/55	1000	100	75
AM1D-051212DZ	4.5-5.5	12/12	42/42	1000	100	80
AM1D-051515DZ	4.5-5.5	15/15	35 /35	1000	100	78
AM1D-051818DZ	4.5-5.5	18/18	27/27	1000	100	77
AM1D-052424DZ	4.5-5.5	24/24	20/20	1000	100	77
AM1D-120303DZ	10.8-13.2	3.3/3.3	150/150	1000	100	66
AM1D-120505DZ	10.8-13.2	5/5	100/100	1000	100	72
AM1D-120707DZ	10.8-13.2	7.2/7.2	70/70	1000	100	66
AM1D-120909DZ	10.8-13.2	9/9	55/55	1000	100	75
AM1D-121212DZ	10.8-13.2	12/12	42/42	1000	100	78
AM1D-121515DZ	10.8-13.2	15/15	35 /35	1000	100	80
AM1D-121818DZ	10.8-13.2	18/18	27/27	1000	100	75
AM1D-122424DZ	10.8-13.2	24/24	20/20	1000	100	72
AM1D-240303DZ	21.6-26.4	3.3/3.3	150/150	1000	100	66
AM1D-240505DZ	21.6-26.4	5/5	100/100	1000	100	72
AM1D-240707DZ	21.6-26.4	7.2/7.2	70/70	1000	100	72
AM1D-240909DZ	21.6-26.4	9/9	55/55	1000	100	78
AM1D-241212DZ	21.6-26.4	12/12	42/42	1000	100	80
AM1D-241515DZ	21.6-26.4	15/15	35 /35	1000	100	77
AM1D-241818DZ	21.6-26.4	18/18	27/27	1000	100	75
AM1D-242424DZ	21.6-26.4	24/24	20/20	1000	100	73

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	3.3	2.97-3.63		VDC
	5	4.5-5.5		
	12	10.8-13.2		
	15	13.5-16.5		
	24	21.6-26.4		
	48	43.2-52.5		
Filter	Capacitor			
Turn on Transient process time			25	ms
Start up time		200		ms
Absolute Maximum Rating	3.3 Vin	0-6		VDC
	5 Vin	0-7		
	12 Vin	0-15		
	15 Vin	0-20		
	24 Vin	0-28		
	48 Vin	0-54		
Peak Input Voltage time		100		ms

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	3 sec		1000 (all models), 3000, 4000, 5200 & 6000 (single / dual)	VDC
Resistance		> 1000		MOhm
Capacitance		60		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±3		%
Voltage balance (Dual Output model)	Balanced Load	±1		%
Short Circuit protection		Momentary (1 sec)		
Line voltage regulation (Single)	For 1.0% of Vin	±1.2		%
Line voltage regulation (Dual)	For 1.0% of Vin	±1.2		%
Load voltage regulation (Single)	load 20~100%	±10		%
Load voltage regulation (Single) 3.3V output model	load 20~100%	±20		%
Load voltage regulation (Dual)	load 20~100%	±10		%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth	75		mV p-p
Rising time		50		ms

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	80		KHz
Operating temperature	Full Load without Derating	-40 to +85		°C
Storage temperature		-55 to +125		°C
Max Case temperature			+100	°C
Cooling	Free air convection			
Humidity			90	%
Case material	Non-conductive black plastic UL 94 V-0			
Weight		2.3		g
Dimensions (L x W x H)		0.76 x 0.24 x 0.37 inch 19.50 x 6.00 x 9.50 mm		
MTBF		>1.300 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

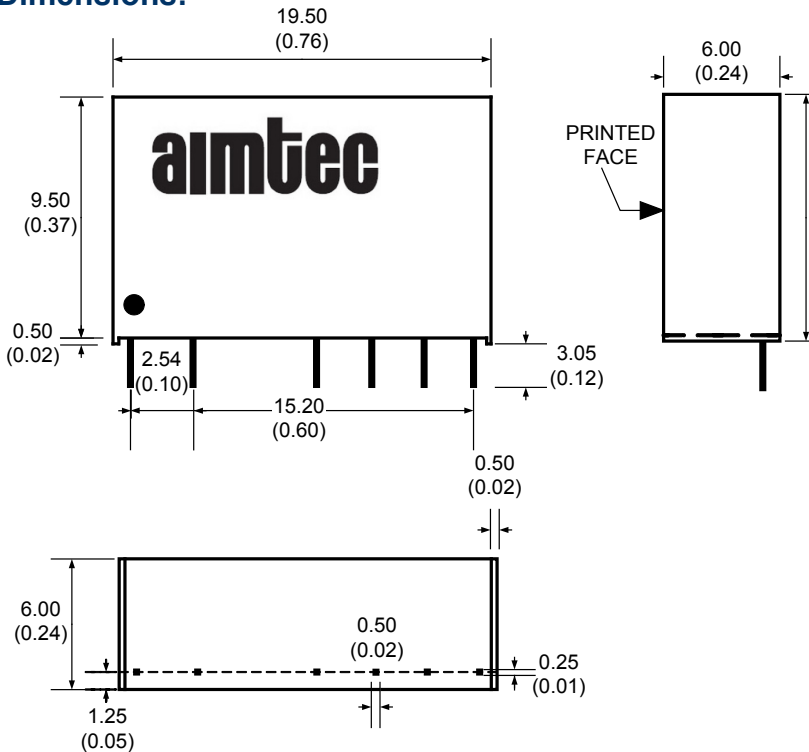
Safety Specifications

Standards	
Agency approvals	cULus & CE (with exception of dual separated models)
Safety	60950-1, 2nd Ed + AM1
	EN55022 (Radiated Emissions) class B
	EN55024 (Noise Immunity)
	IEC61000-4-2(ESD) Criteria A
	IEC61000-4-3(Radiated immunity) Criteria A
	IEC61000-4-4(EFT) Criteria A
	IEC61000-4-5(Surge) Criteria A
	IEC61000-4-6(CS) Criteria A
	IEC61000-4-8(PFMF) Criteria A

Pin Out Specifications

Pin	Single 1000 VDC	Dual 1000 VDC	Dual Separated 1000 VDC	Single 3000, 4000, 5200 & 6000 VDC	Dual 3000, 4000, 5200 & 6000 VDC
1	+ V Input	+ V Input	+V Input	+ V Input	+ V Input
2	- V Input	- V Input	-V Input	- V Input	- V Input
4	- V Output	- V Output	+V1 Output	No pin	No pin
5	No pin	Common	-V1 Output	- V Output	- V Output
6	+ V Output	+ V Output	+V2 Output	No pin	Common
7	No pin	No pin	-V2 Output	+ V Output	+ V Output

Dimensions:



NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other than the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.