

## Series AM1D-Z

### 1 Watt | DC-DC Converter



#### FEATURES:

- RoHS compliant
- High efficiency up to 86%
- 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)	Input Current Full Load   No Load (mA)		Max Capacitive Load(uF)	Efficiency %
AM1D-0303SZ	2.97-3.63	3.3	303	1000	399	28	220	76
AM1D-0305SZ	2.97-3.63	5	200	1000	389	22	220	78
AM1D-0307SZ	2.97-3.63	7.2	139	1000	379	22	220	78
AM1D-0309SZ	2.97-3.63	9	111	1000	379	35	220	80
AM1D-0312SZ	2.97-3.63	12	83	1000	389	30	220	77
AM1D-0315SZ	2.97-3.63	15	67	1000	389	30	220	78
AM1D-0318SZ	2.97-3.63	18	56	1000	415	30	220	73
AM1D-0324SZ	2.97-3.63	24	42	1000	415	30	220	73
AM1D-0503SZ	4.5-5.5	3.3	303	1000	256	15	220	78
AM1D-0505SZ	4.5-5.5	5	200	1000	247	17	220	81
AM1D-0507SZ	4.5-5.5	7.2	139	1000	247	16	220	81
AM1D-0509SZ	4.5-5.5	9	111	1000	244	15	220	82
AM1D-0512SZ	4.5-5.5	12	83	1000	253	17	220	79
AM1D-0515SZ	4.5-5.5	15	67	1000	233	17	220	86
AM1D-0518SZ	4.5-5.5	18	56	1000	241	16	220	83
AM1D-0524SZ	4.5-5.5	24	42	1000	244	20	220	82
AM1D-1203SZ	10.8-13.2	3.3	303	1000	111	12	220	75
AM1D-1205SZ	10.8-13.2	5	200	1000	105	14	220	79
AM1D-1207SZ	10.8-13.2	7.2	139	1000	111	14	220	75
AM1D-1209SZ	10.8-13.2	9	111	1000	104	9	220	80
AM1D-1212SZ	10.8-13.2	12	83	1000	105	13	220	79
AM1D-1215SZ	10.8-13.2	15	67	1000	102	10	220	82
AM1D-1218SZ	10.8-13.2	18	56	1000	103	11	220	81
AM1D-1224SZ	10.8-13.2	24	42	1000	110	20	220	76
AM1D-1503SZ	13.5-16.5	3.3	303	1000	83	10	220	80
AM1D-1505SZ	13.5-16.5	5	200	1000	82	7	220	81
AM1D-1507SZ	13.5-16.5	7.2	139	1000	85	10	220	78
AM1D-1509SZ	13.5-16.5	9	111	1000	85	10	220	78
AM1D-1512SZ	13.5-16.5	12	83	1000	83	8	220	80
AM1D-1515SZ	13.5-16.5	15	67	1000	84	12	220	79
AM1D-1518SZ	13.5-16.5	18	56	1000	83	10	220	80
AM1D-1524SZ	13.5-16.5	24	42	1000	80	5	220	83
AM1D-2403SZ	21.6-26.4	3.3	303	1000	56	8	220	74
AM1D-2405SZ	21.6-26.4	5	200	1000	54	6	220	77
AM1D-2407SZ	21.6-26.4	7.2	139	1000	57	6	220	73
AM1D-2409SZ	21.6-26.4	9	111	1000	55	6	220	76
AM1D-2412SZ	21.6-26.4	12	83	1000	53	6	220	78
AM1D-2415SZ	21.6-26.4	15	67	1000	52	5	220	80
AM1D-2418SZ	21.6-26.4	18	56	1000	51	5	220	82
AM1D-2424SZ	21.6-26.4	24	42	1000	52	8	220	80
AM1D-4803SZ	43.2-52.5	3.3	303	1000	29	5	220	73
AM1D-4805SZ	43.2-52.5	5	200	1000	29	5	220	73
AM1D-4807SZ	43.2-52.5	7.2	139	1000	28	5	220	75
AM1D-4809SZ	43.2-52.5	9	111	1000	27	5	220	76
AM1D-4812SZ	43.2-52.5	12	83	1000	27	5	220	76
AM1D-4815SZ	43.2-52.5	15	67	1000	27	5	220	77
AM1D-4818SZ	43.2-52.5	18	56	1000	28	5	220	75
AM1D-4824SZ	43.2-52.5	24	42	1000	27	6	220	76

AM1D-0303SH30Z	2.97-3.63	3.3	303	3000	399	28	220	76
AM1D-0305SH30Z	2.97-3.63	5	200	3000	389	22	220	78
AM1D-0307SH30Z	2.97-3.63	7.2	139	3000	379	22	220	78
AM1D-0309SH30Z	2.97-3.63	9	111	3000	379	35	220	80
AM1D-0312SH30Z	2.97-3.63	12	83	3000	389	30	220	77
AM1D-0315SH30Z	2.97-3.63	15	67	3000	389	30	220	78
AM1D-0318SH30Z	2.97-3.63	18	56	3000	415	30	220	73
AM1D-0324SH30Z	2.97-3.63	24	42	3000	415	30	220	73
AM1D-0503SH30Z	4.5-5.5	3.3	303	3000	256	15	220	78
AM1D-0505SH30Z	4.5-5.5	5	200	3000	247	17	220	81
AM1D-0507SH30Z	4.5-5.5	7.2	139	3000	247	16	220	81
AM1D-0509SH30Z	4.5-5.5	9	111	3000	244	15	220	82
AM1D-0512SH30Z	4.5-5.5	12	83	3000	253	17	220	79
AM1D-0515SH30Z	4.5-5.5	15	67	3000	233	17	220	86
AM1D-0518SH30Z	4.5-5.5	18	56	3000	241	16	220	83
AM1D-0524SH30Z	4.5-5.5	24	42	3000	244	20	220	82
AM1D-1203SH30Z	10.8-13.2	3.3	303	3000	111	12	220	75
AM1D-1205SH30Z	10.8-13.2	5	200	3000	105	14	220	79
AM1D-1207SH30Z	10.8-13.2	7.2	139	3000	111	14	220	75
AM1D-1209SH30Z	10.8-13.2	9	111	3000	104	9	220	80
AM1D-1212SH30Z	10.8-13.2	12	83	3000	105	13	220	79
AM1D-1215SH30Z	10.8-13.2	15	67	3000	102	10	220	82
AM1D-1218SH30Z	10.8-13.2	18	56	3000	103	11	220	81
AM1D-1224SH30Z	10.8-13.2	24	42	3000	110	20	220	76
AM1D-1503SH30Z	13.5-16.5	3.3	303	3000	83	10	220	80
AM1D-1505SH30Z	13.5-16.5	5	200	3000	82	7	220	81
AM1D-1507SH30Z	13.5-16.5	7.2	139	3000	85	10	220	78
AM1D-1509SH30Z	13.5-16.5	9	111	3000	85	10	220	78
AM1D-1512SH30Z	13.5-16.5	12	83	3000	83	8	220	80
AM1D-1515SH30Z	13.5-16.5	15	67	3000	84	12	220	79
AM1D-1518SH30Z	13.5-16.5	18	56	3000	83	10	220	80
AM1D-1524SH30Z	13.5-16.5	24	42	3000	80	5	220	83
AM1D-2403SH30Z	21.6-26.4	3.3	303	3000	56	8	220	74
AM1D-2405SH30Z	21.6-26.4	5	200	3000	54	6	220	77
AM1D-2407SH30Z	21.6-26.4	7.2	139	3000	57	6	220	73
AM1D-2409SH30Z	21.6-26.4	9	111	3000	55	6	220	76
AM1D-2412SH30Z	21.6-26.4	12	83	3000	53	6	220	78
AM1D-2415SH30Z	21.6-26.4	15	67	3000	52	5	220	80
AM1D-2418SH30Z	21.6-26.4	18	56	3000	51	5	220	82
AM1D-2424SH30Z	21.6-26.4	24	42	3000	52	8	220	80
AM1D-4803SH30Z	43.2-52.5	3.3	303	3000	29	5	220	73
AM1D-4805SH30Z	43.2-52.5	5	200	3000	29	5	220	73
AM1D-4807SH30Z	43.2-52.5	7.2	139	3000	28	5	220	75
AM1D-4809SH30Z	43.2-52.5	9	111	3000	27	5	220	76
AM1D-4812SH30Z	43.2-52.5	12	83	3000	27	5	220	76
AM1D-4815SH30Z	43.2-52.5	15	67	3000	27	5	220	77
AM1D-4818SH30Z	43.2-52.5	18	56	3000	28	5	220	75
AM1D-4824SH30Z	43.2-52.5	24	42	3000	27	6	220	76
AM1D-0303SH40Z	2.97-3.63	3.3	303	4000	399	28	220	76
AM1D-0305SH40Z	2.97-3.63	5	200	4000	389	22	220	78
AM1D-0307SH40Z	2.97-3.63	7.2	139	4000	379	22	220	78
AM1D-0309SH40Z	2.97-3.63	9	111	4000	379	35	220	80
AM1D-0312SH40Z	2.97-3.63	12	83	4000	389	30	220	77
AM1D-0315SH40Z	2.97-3.63	15	67	4000	389	30	220	78
AM1D-0318SH40Z	2.97-3.63	18	56	4000	415	30	220	73
AM1D-0324SH40Z	2.97-3.63	24	42	4000	415	30	220	73
AM1D-0503SH40Z	4.5-5.5	3.3	303	4000	256	15	220	78
AM1D-0505SH40Z	4.5-5.5	5	200	4000	247	17	220	81
AM1D-0507SH40Z	4.5-5.5	7.2	139	4000	247	16	220	81

AM1D-0509SH40Z	4.5-5.5	9	111	4000	244	15	220	82
AM1D-0512SH40Z	4.5-5.5	12	83	4000	253	17	220	79
AM1D-0515SH40Z	4.5-5.5	15	67	4000	233	17	220	86
AM1D-0518SH40Z	4.5-5.5	18	56	4000	241	16	220	83
AM1D-0524SH40Z	4.5-5.5	24	42	4000	244	20	220	82
AM1D-1203SH40Z	10.8-13.2	3.3	303	4000	111	12	220	75
AM1D-1205SH40Z	10.8-13.2	5	200	4000	105	14	220	79
AM1D-1207SH40Z	10.8-13.2	7.2	139	4000	111	14	220	75
AM1D-1209SH40Z	10.8-13.2	9	111	4000	104	9	220	80
AM1D-1212SH40Z	10.8-13.2	12	83	4000	105	13	220	79
AM1D-1215SH40Z	10.8-13.2	15	67	4000	102	10	220	82
AM1D-1218SH40Z	10.8-13.2	18	56	4000	103	11	220	81
AM1D-1224SH40Z	10.8-13.2	24	42	4000	110	20	220	76
AM1D-1503SH40Z	13.5-16.5	3.3	303	4000	83	10	220	80
AM1D-1505SH40Z	13.5-16.5	5	200	4000	82	7	220	81
AM1D-1507SH40Z	13.5-16.5	7.2	139	4000	85	10	220	78
AM1D-1509SH40Z	13.5-16.5	9	111	4000	85	10	220	78
AM1D-1512SH40Z	13.5-16.5	12	83	4000	83	8	220	80
AM1D-1515SH40Z	13.5-16.5	15	67	4000	84	12	220	79
AM1D-1518SH40Z	13.5-16.5	18	56	4000	83	10	220	80
AM1D-1524SH40Z	13.5-16.5	24	42	4000	80	5	220	83
AM1D-2403SH40Z	21.6-26.4	3.3	303	4000	56	8	220	74
AM1D-2405SH40Z	21.6-26.4	5	200	4000	54	6	220	77
AM1D-2407SH40Z	21.6-26.4	7.2	139	4000	57	6	220	73
AM1D-2409SH40Z	21.6-26.4	9	111	4000	55	6	220	76
AM1D-2412SH40Z	21.6-26.4	12	83	4000	53	6	220	78
AM1D-2415SH40Z	21.6-26.4	15	67	4000	52	5	220	80
AM1D-2418SH40Z	21.6-26.4	18	56	4000	51	5	220	82
AM1D-2424SH40Z	21.6-26.4	24	42	4000	52	8	220	80
AM1D-4803SH40Z	43.2-52.5	3.3	303	4000	29	5	220	73
AM1D-4805SH40Z	43.2-52.5	5	200	4000	29	5	220	73
AM1D-4807SH40Z	43.2-52.5	7.2	139	4000	28	5	220	75
AM1D-4809SH40Z	43.2-52.5	9	111	4000	27	5	220	76
AM1D-4812SH40Z	43.2-52.5	12	83	4000	27	5	220	76
AM1D-4815SH40Z	43.2-52.5	15	67	4000	27	5	220	77
AM1D-4818SH40Z	43.2-52.5	18	56	4000	28	5	220	75
AM1D-4824SH40Z	43.2-52.5	24	42	4000	27	6	220	76
AM1D-0303SH52Z	2.97-3.63	3.3	303	5200	399	28	220	76
AM1D-0305SH52Z	2.97-3.63	5	200	5200	389	22	220	78
AM1D-0307SH52Z	2.97-3.63	7.2	139	5200	379	22	220	78
AM1D-0309SH52Z	2.97-3.63	9	111	5200	379	35	220	80
AM1D-0312SH52Z	2.97-3.63	12	83	5200	389	30	220	77
AM1D-0315SH52Z	2.97-3.63	15	67	5200	389	30	220	78
AM1D-0318SH52Z	2.97-3.63	18	56	5200	415	30	220	73
AM1D-0324SH52Z	2.97-3.63	24	42	5200	415	30	220	73
AM1D-0503SH52Z	4.5-5.5	3.3	303	5200	256	15	220	78
AM1D-0505SH52Z	4.5-5.5	5	200	5200	247	17	220	81
AM1D-0507SH52Z	4.5-5.5	7.2	139	5200	247	16	220	81
AM1D-0509SH52Z	4.5-5.5	9	111	5200	244	15	220	82
AM1D-0512SH52Z	4.5-5.5	12	83	5200	253	17	220	79
AM1D-0515SH52Z	4.5-5.5	15	67	5200	233	17	220	86
AM1D-0518SH52Z	4.5-5.5	18	56	5200	241	16	220	83
AM1D-0524SH52Z	4.5-5.5	24	42	5200	244	20	220	82
AM1D-1203SH52Z	10.8-13.2	3.3	303	5200	111	12	220	75
AM1D-1205SH52Z	10.8-13.2	5	200	5200	105	14	220	79
AM1D-1207SH52Z	10.8-13.2	7.2	139	5200	111	14	220	75
AM1D-1209SH52Z	10.8-13.2	9	111	5200	104	9	220	80
AM1D-1212SH52Z	10.8-13.2	12	83	5200	105	13	220	79
AM1D-1215SH52Z	10.8-13.2	15	67	5200	102	10	220	82
AM1D-1218SH52Z	10.8-13.2	18	56	5200	103	11	220	81

AM1D-1224SH52Z	10.8-13.2	24	42	5200	110	20	220	76
AM1D-1503SH52Z	13.5-16.5	3.3	303	5200	83	10	220	80
AM1D-1505SH52Z	13.5-16.5	5	200	5200	82	7	220	81
AM1D-1507SH52Z	13.5-16.5	7.2	139	5200	85	10	220	78
AM1D-1509SH52Z	13.5-16.5	9	111	5200	85	10	220	78
AM1D-1512SH52Z	13.5-16.5	12	83	5200	83	8	220	80
AM1D-1515SH52Z	13.5-16.5	15	67	5200	84	12	220	79
AM1D-1518SH52Z	13.5-16.5	18	56	5200	83	10	220	80
AM1D-1524SH52Z	13.5-16.5	24	42	5200	80	5	220	83
AM1D-2403SH52Z	21.6-26.4	3.3	303	5200	56	8	220	74
AM1D-2405SH52Z	21.6-26.4	5	200	5200	54	6	220	77
AM1D-2407SH52Z	21.6-26.4	7.2	139	5200	57	6	220	73
AM1D-2409SH52Z	21.6-26.4	9	111	5200	55	6	220	76
AM1D-2412SH52Z	21.6-26.4	12	83	5200	53	6	220	78
AM1D-2415SH52Z	21.6-26.4	15	67	5200	52	5	220	80
AM1D-2418SH52Z	21.6-26.4	18	56	5200	51	5	220	82
AM1D-2424SH52Z	21.6-26.4	24	42	5200	52	8	220	80
AM1D-4803SH52Z	43.2-52.5	3.3	303	5200	29	5	220	73
AM1D-4805SH52Z	43.2-52.5	5	200	5200	29	5	220	73
AM1D-4807SH52Z	43.2-52.5	7.2	139	5200	28	5	220	75
AM1D-4809SH52Z	43.2-52.5	9	111	5200	27	5	220	76
AM1D-4812SH52Z	43.2-52.5	12	83	5200	27	5	220	76
AM1D-4815SH52Z	43.2-52.5	15	67	5200	27	5	220	77
AM1D-4818SH52Z	43.2-52.5	18	56	5200	28	5	220	75
AM1D-4824SH52Z	43.2-52.5	24	42	5200	27	6	220	76
AM1D-0303SH60Z	2.97-3.63	3.3	303	6000	399	28	220	76
AM1D-0305SH60Z	2.97-3.63	5	200	6000	389	22	220	78
AM1D-0307SH60Z	2.97-3.63	7.2	139	6000	379	22	220	78
AM1D-0309SH60Z	2.97-3.63	9	111	6000	379	35	220	80
AM1D-0312SH60Z	2.97-3.63	12	83	6000	389	30	220	77
AM1D-0315SH60Z	2.97-3.63	15	67	6000	389	30	220	78
AM1D-0318SH60Z	2.97-3.63	18	56	6000	415	30	220	73
AM1D-0324SH60Z	2.97-3.63	24	42	6000	415	30	220	73
AM1D-0503SH60Z	4.5-5.5	3.3	303	6000	256	15	220	78
AM1D-0505SH60Z	4.5-5.5	5	200	6000	247	17	220	81
AM1D-0507SH60Z	4.5-5.5	7.2	139	6000	247	16	220	81
AM1D-0509SH60Z	4.5-5.5	9	111	6000	244	15	220	82
AM1D-0512SH60Z	4.5-5.5	12	83	6000	253	17	220	79
AM1D-0515SH60Z	4.5-5.5	15	67	6000	233	17	220	86
AM1D-0518SH60Z	4.5-5.5	18	56	6000	241	16	220	83
AM1D-0524SH60Z	4.5-5.5	24	42	6000	244	20	220	82
AM1D-1203SH60Z	10.8-13.2	3.3	303	6000	111	12	220	75
AM1D-1205SH60Z	10.8-13.2	5	200	6000	105	14	220	79
AM1D-1207SH60Z	10.8-13.2	7.2	139	6000	111	14	220	75
AM1D-1209SH60Z	10.8-13.2	9	111	6000	104	9	220	80
AM1D-1212SH60Z	10.8-13.2	12	83	6000	105	13	220	79
AM1D-1215SH60Z	10.8-13.2	15	67	6000	102	10	220	82
AM1D-1218SH60Z	10.8-13.2	18	56	6000	103	11	220	81
AM1D-1224SH60Z	10.8-13.2	24	42	6000	110	20	220	76
AM1D-1503SH60Z	13.5-16.5	3.3	303	6000	83	10	220	80
AM1D-1505SH60Z	13.5-16.5	5	200	6000	82	7	220	81
AM1D-1507SH60Z	13.5-16.5	7.2	139	6000	85	10	220	78
AM1D-1509SH60Z	13.5-16.5	9	111	6000	85	10	220	78
AM1D-1512SH60Z	13.5-16.5	12	83	6000	83	8	220	80
AM1D-1515SH60Z	13.5-16.5	15	67	6000	84	12	220	79
AM1D-1518SH60Z	13.5-16.5	18	56	6000	83	10	220	80
AM1D-1524SH60Z	13.5-16.5	24	42	6000	80	5	220	83
AM1D-2403SH60Z	21.6-26.4	3.3	303	6000	56	8	220	74
AM1D-2405SH60Z	21.6-26.4	5	200	6000	54	6	220	77
AM1D-2407SH60Z	21.6-26.4	7.2	139	6000	57	6	220	73

AM1D-2409SH60Z	21.6-26.4	9	111	6000	55	6	220	76
AM1D-2412SH60Z	21.6-26.4	12	83	6000	53	6	220	78
AM1D-2415SH60Z	21.6-26.4	15	67	6000	52	5	220	80
AM1D-2418SH60Z	21.6-26.4	18	56	6000	51	5	220	82
AM1D-2424SH60Z	21.6-26.4	24	42	6000	52	8	220	80
AM1D-4803SH60Z	43.2-52.5	3.3	303	6000	29	5	220	73
AM1D-4805SH60Z	43.2-52.5	5	200	6000	29	5	220	73
AM1D-4807SH60Z	43.2-52.5	7.2	139	6000	28	5	220	75
AM1D-4809SH60Z	43.2-52.5	9	111	6000	27	5	220	76
AM1D-4812SH60Z	43.2-52.5	12	83	6000	27	5	220	76
AM1D-4815SH60Z	43.2-52.5	15	67	6000	27	5	220	77
AM1D-4818SH60Z	43.2-52.5	18	56	6000	28	5	220	75
AM1D-4824SH60Z	43.2-52.5	24	42	6000	27	6	220	76

## Models

### Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current Max (mA)	Isolation (VDC)	Input Current Full Load   No Load (mA)		Max Capacitive Load (uF)	Efficiency (%)
AM1D-0303DZ	2.97-3.63	±3.3	±152	1000	459	30	±100	66
AM1D-0305DZ	2.97-3.63	±5	±100	1000	433	30	±100	70
AM1D-0307DZ	2.97-3.63	±7.2	±69	1000	421	30	±100	72
AM1D-0309DZ	2.97-3.63	±9	±56	1000	404	26	±100	75
AM1D-0312DZ	2.97-3.63	±12	±42	1000	394	30	±100	77
AM1D-0315DZ	2.97-3.63	±15	±33	1000	389	30	±100	78
AM1D-0318DZ	2.97-3.63	±18	±28	1000	404	25	±100	75
AM1D-0324DZ	2.97-3.63	±24	±21	1000	404	25	±100	75
AM1D-0503DZ	4.5-5.5	±3.3	±152	1000	299	20	±100	67
AM1D-0505DZ	4.5-5.5	±5	±100	1000	270	20	±100	74
AM1D-0507DZ	4.5-5.5	±7.2	±69	1000	253	15	±100	79
AM1D-0509DZ	4.5-5.5	±9	±56	1000	247	15	±100	81
AM1D-0512DZ	4.5-5.5	±12	±42	1000	250	20	±100	80
AM1D-0515DZ	4.5-5.5	±15	±33	1000	244	20	±100	82
AM1D-0518DZ	4.5-5.5	±18	±27	1000	247	22	±100	81
AM1D-0524DZ	4.5-5.5	±24	±21	1000	247	22	±100	81
AM1D-1203DZ	10.8-13.2	±3.3	±152	1000	123	13	±100	68
AM1D-1205DZ	10.8-13.2	±5	±100	1000	123	10	±100	74
AM1D-1207DZ	10.8-13.2	±7.2	±69	1000	110	10	±100	76
AM1D-1209DZ	10.8-13.2	±9	±56	1000	110	13	±100	78
AM1D-1212DZ	10.8-13.2	±12	±42	1000	102	10	±100	82
AM1D-1215DZ	10.8-13.2	±15	±33	1000	102	10	±100	82
AM1D-1218DZ	10.8-13.2	±18	±28	1000	102	10	±100	82
AM1D-1224DZ	10.8-13.2	±24	±21	1000	111	20	±100	75
AM1D-1503DZ	13.5-16.5	±3.3	±152	1000	89	20	±100	75
AM1D-1505DZ	13.5-16.5	±5	±100	1000	89	20	±100	75
AM1D-1507DZ	13.5-16.5	±7.2	±69	1000	89	18	±100	75
AM1D-1509DZ	13.5-16.5	±9	±56	1000	87	18	±100	77
AM1D-1512DZ	13.5-16.5	±12	±42	1000	87	20	±100	77
AM1D-1515DZ	13.5-16.5	±15	±33	1000	87	20	±100	77
AM1D-1518DZ	13.5-16.5	±18	±28	1000	89	15	±100	75
AM1D-1524DZ	13.5-16.5	±24	±21	1000	89	15	±100	75
AM1D-2403DZ	21.6-26.4	±3.3	±152	1000	62	7	±100	67
AM1D-2405DZ	21.6-26.4	±5	±100	1000	56	6	±100	74
AM1D-2407DZ	21.6-26.4	±7.2	±69	1000	56	7	±100	78
AM1D-2409DZ	21.6-26.4	±9	±56	1000	56	7	±100	78
AM1D-2412DZ	21.6-26.4	±12	±42	1000	52	6	±100	80
AM1D-2415DZ	21.6-26.4	±15	±33	1000	52	8	±100	80
AM1D-2418DZ	21.6-26.4	±18	±28	1000	51	6	±100	81
AM1D-2424DZ	21.6-26.4	±24	±21	1000	51	8	±100	82



AM1D-4803DZ	43.2-52.5	±3.3	±152	1000	34	6	±100	62
AM1D-4805DZ	43.2-52.5	±5	±100	1000	31	5	±100	68
AM1D-4807DZ	43.2-52.5	±7.2	±69	1000	29	5	±100	72
AM1D-4809DZ	43.2-52.5	±9	±56	1000	29	5	±100	73
AM1D-4812DZ	43.2-52.5	±12	±42	1000	28	6	±100	74
AM1D-4815DZ	43.2-52.5	±15	±33	1000	27	5	±100	77
AM1D-4818DZ	43.2-52.5	±18	±28	1000	28	5	±100	75
AM1D-4824DZ	43.2-52.5	±24	±21	1000	28	6	±100	74
AM1D-0303DH30Z	2.97-3.63	±3.3	±152	3000	459	30	±100	66
AM1D-0305DH30Z	2.97-3.63	±5	±100	3000	433	30	±100	70
AM1D-0307DH30Z	2.97-3.63	±7.2	±69	3000	421	30	±100	72
AM1D-0309DH30Z	2.97-3.63	±9	±56	3000	404	26	±100	75
AM1D-0312DH30Z	2.97-3.63	±12	±42	3000	394	30	±100	77
AM1D-0315DH30Z	2.97-3.63	±15	±33	3000	389	30	±100	78
AM1D-0318DH30Z	2.97-3.63	±18	±28	3000	404	25	±100	75
AM1D-0324DH30Z	2.97-3.63	±24	±21	3000	404	25	±100	75
AM1D-0503DH30Z	4.5-5.5	±3.3	±152	3000	299	20	±100	67
AM1D-0505DH30Z	4.5-5.5	±5	±100	3000	270	20	±100	74
AM1D-0507DH30Z	4.5-5.5	±7.2	±69	3000	253	15	±100	79
AM1D-0509DH30Z	4.5-5.5	±9	±56	3000	247	15	±100	81
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AM1D-1203DH30Z	10.8-13.2	±3.3	±152	3000	123	13	±100	68
AM1D-1205DH30Z	10.8-13.2	±5	±100	3000	123	10	±100	74
AM1D-1207DH30Z	10.8-13.2	±7.2	±69	3000	110	10	±100	76
AM1D-1209DH30Z	10.8-13.2	±9	±56	3000	110	13	±100	78
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AM1D-1218DH30Z	10.8-13.2	±18	±28	3000	102	10	±100	82
AM1D-1224DH30Z	10.8-13.2	±24	±21	3000	111	20	±100	75
AM1D-1503DH30Z	13.5-16.5	±3.3	±152	3000	89	20	±100	75
AM1D-1505DH30Z	13.5-16.5	±5	±100	3000	89	20	±100	75
AM1D-1507DH30Z	13.5-16.5	±7.2	±69	3000	89	18	±100	75
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AM1D-4824DH30Z	43.2-52.5	±24	±21	3000	28	6	±100	74
AM1D-0303DH40Z	2.97-3.63	±3.3	±152	4000	459	30	±100	66
AM1D-0305DH40Z	2.97-3.63	±5	±100	4000	433	30	±100	70
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AM1D-1512DH60Z	13.5-16.5	±12	±42	6000	87	20	±100	77
AM1D-1515DH60Z	13.5-16.5	±15	±33	6000	87	20	±100	77
AM1D-1518DH60Z	13.5-16.5	±18	±28	6000	89	15	±100	75
AM1D-1524DH60Z	13.5-16.5	±24	±21	6000	89	15	±100	75
AM1D-2403DH60Z	21.6-26.4	±3.3	±152	6000	62	7	±100	67
AM1D-2405DH60Z	21.6-26.4	±5	±100	6000	56	6	±100	74
AM1D-2407DH60Z	21.6-26.4	±7.2	±69	6000	56	7	±100	78
AM1D-2409DH60Z	21.6-26.4	±9	±56	6000	56	7	±100	78
AM1D-2412DH60Z	21.6-26.4	±12	±42	6000	52	6	±100	80
AM1D-2415DH60Z	21.6-26.4	±15	±33	6000	52	8	±100	80
AM1D-2418DH60Z	21.6-26.4	±18	±28	6000	51	6	±100	81
AM1D-2424DH60Z	21.6-26.4	±24	±21	6000	51	8	±100	82
AM1D-4803DH60Z	43.2-52.5	±3.3	±152	6000	34	6	±100	62
AM1D-4805DH60Z	43.2-52.5	±5	±100	6000	31	5	±100	68
AM1D-4807DH60Z	43.2-52.5	±7.2	±69	6000	29	5	±100	72
AM1D-4809DH60Z	43.2-52.5	±9	±56	6000	29	5	±100	73
AM1D-4812DH60Z	43.2-52.5	±12	±42	6000	28	6	±100	74
AM1D-4815DH60Z	43.2-52.5	±15	±33	6000	27	5	±100	77
AM1D-4818DH60Z	43.2-52.5	±18	±28	6000	28	5	±100	75
AM1D-4824DH60Z	43.2-52.5	±24	±21	6000	28	6	±100	74

## Models

### Dual separated output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Input Current Full Load   No Load (mA)		Max Capacitive Load (uF)	Efficiency (%)
AM1D-050303DZ	4.5-5.5	3.3/3.3	151/151	1000	256	15	100	75
AM1D-050505DZ	4.5-5.5	5/5	100/100	1000	247	17	100	75
AM1D-050707DZ	4.5-5.5	7.2/7.2	69/69	1000	247	16	100	77
AM1D-050909DZ	4.5-5.5	9/9	56/56	1000	244	15	100	79
AM1D-051212DZ	4.5-5.5	12/12	42/42	1000	253	17	100	80
AM1D-051515DZ	4.5-5.5	15/15	33 /33	1000	233	17	100	82
AM1D-051818DZ	4.5-5.5	18/18	27/27	1000	241	16	100	79
AM1D-052424DZ	4.5-5.5	24/24	20/20	1000	244	20	100	77
AM1D-120303DZ	10.8-13.2	3.3/3.3	151/151	1000	111	12	100	65
AM1D-120505DZ	10.8-13.2	5/5	100/100	1000	105	14	100	75
AM1D-120707DZ	10.8-13.2	7.2/7.2	69/69	1000	111	14	100	77
AM1D-120909DZ	10.8-13.2	9/9	56/56	1000	104	9	100	77
AM1D-121212DZ	10.8-13.2	12/12	42/42	1000	105	13	100	80
AM1D-121515DZ	10.8-13.2	15/15	33 /33	1000	102	10	100	81
AM1D-121818DZ	10.8-13.2	18/18	27/27	1000	103	11	100	75
AM1D-122424DZ	10.8-13.2	24/24	20/20	1000	110	20	100	74
AM1D-240303DZ	21.6-26.4	3.3/3.3	151/151	1000	56	8	100	66
AM1D-240505DZ	21.6-26.4	5/5	100/100	1000	54	6	100	75
AM1D-240707DZ	21.6-26.4	7.2/7.2	69/69	1000	57	6	100	77
AM1D-240909DZ	21.6-26.4	9/9	56/56	1000	55	6	100	79
AM1D-241212DZ	21.6-26.4	12/12	42/42	1000	53	6	100	82
AM1D-241515DZ	21.6-26.4	15/15	33 /33	1000	52	5	100	82
AM1D-241818DZ	21.6-26.4	18/18	27/27	1000	51	5	100	78
AM1D-242424DZ	21.6-26.4	24/24	20/20	1000	52	8	100	76

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			
Input reflected input current*		20		mA p-p
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

\*Measured with 12μH source inductance and 47μF (ESR<1Ω at 100KHz) source capacitor.

NOTE: For front end protection, a slow blow fuse should be added: 800mA for 3.3V input models, 500mA for 5V input models and 300mA for all others.

### Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 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	%
Short Circuit protection		Momentary (1 sec)		
Line voltage regulation	For 1.0% of Vin	±1.2		%
Load voltage regulation	load 20~100%		±10	%
Load voltage regulation 3.3V output	load 20~100%		±20	%
Temperature coefficient		±0.02		%/°C
Ripple & Noise	At 20MHz Bandwidth		75	mV p-p

### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load, variable	80		KHz
Operating temperature	Full Load without Derating	-40 to +85		°C
Storage temperature		-40 to +125		°C
Max Case temperature			+100	°C
Cooling	Free air convection			
Humidity			95	%
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 0.39 inch	19.50 x 6.00 x 10.00 mm	
MTBF		>1 121 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

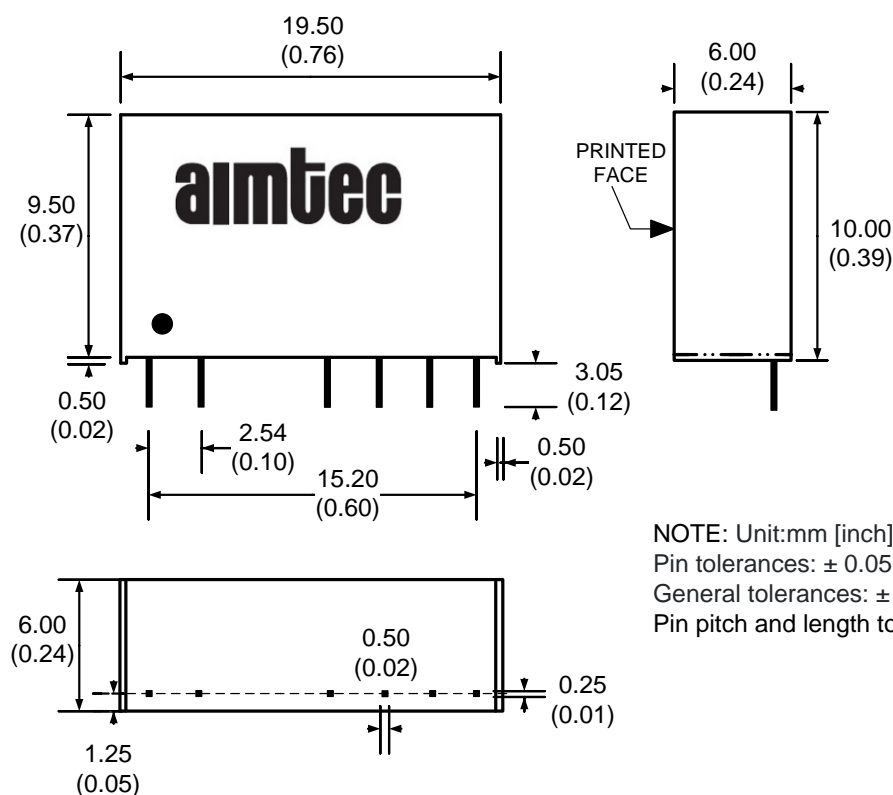
## Safety Specifications

Standards	
Agency approvals	cULus & CE (with exception of dual separated models)
Safety	IEC/EN/UL 60950-1, 2nd Ed + AM1
	EN55032, class B, with the recommended EMI circuit (with exception of dual separated models)
	EN55024 (Noise Immunity)
	IEC61000-4-2(ESD) Criteria A
	IEC61000-4-3(Radiated immunity) Criteria A
	IEC61000-4-4(EFT) Criteria A, with the recommended EFT/Surge external circuit
	IEC61000-4-5(Surge) Criteria A, with the recommended EFT/Surge external circuit
	IEC61000-4-6(CS) Criteria A
	IEC61000-4-8(PFMF) Criteria A

## Pin Out Specifications

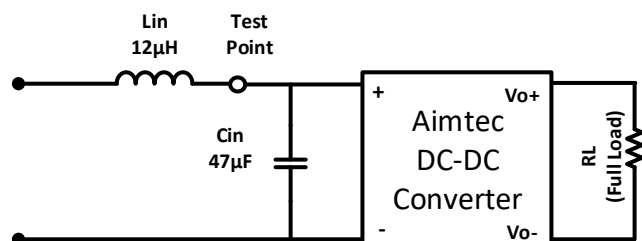
Pin	Single 1000 VDC	Dual 1000 VDC	Dual Separated 1000 VDC	Single 3000, 4000, 5200 & 6000 VDC	Dual 3000, 4000, 5200 & 6000 VDC
1	+ V Input	+ V Input	+V Input	+ V Input	+ V Input
2	- V Input	- V Input	-V Input	- V Input	- V Input
4	- V Output	- V Output	+V1 Output	No pin	No pin
5	No pin	Common	-V1 Output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



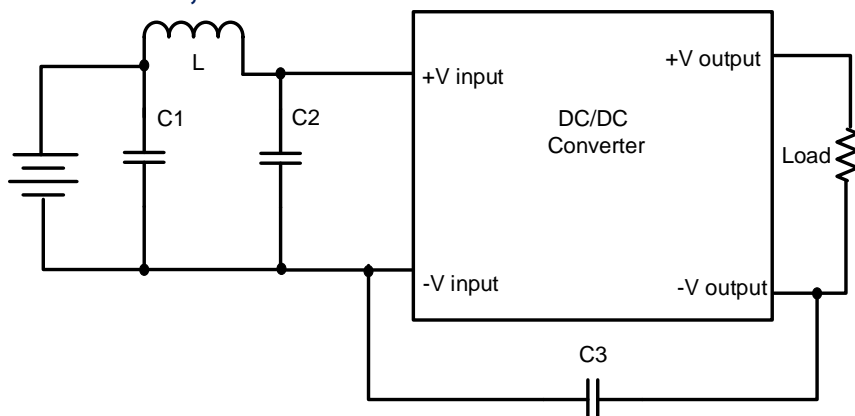
NOTE: Unit:mm [inch]  
Pin tolerances:  $\pm 0.05\text{mm}$  [ $\pm 0.002\text{inch}$ ]  
General tolerances:  $\pm 0.5\text{mm}$  [ $\pm 0.02\text{inch}$ ]  
Pin pitch and length tolerance:  $\pm 0.35$  ( $\pm 0.014$ )

## Input Reflected Ripple Test Circuit



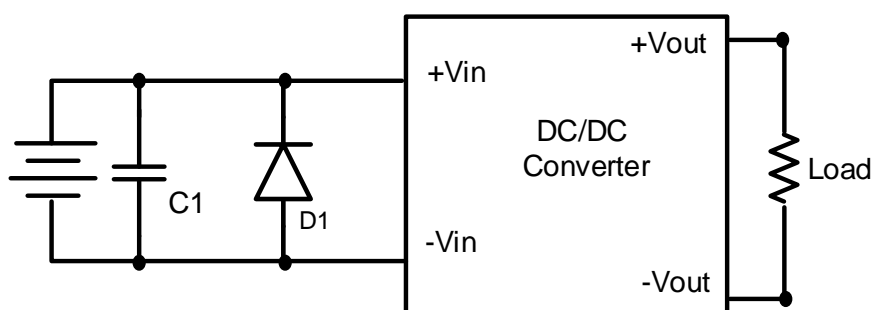
\* Tested at full load, and nominal input

## Class B EMI, external filter



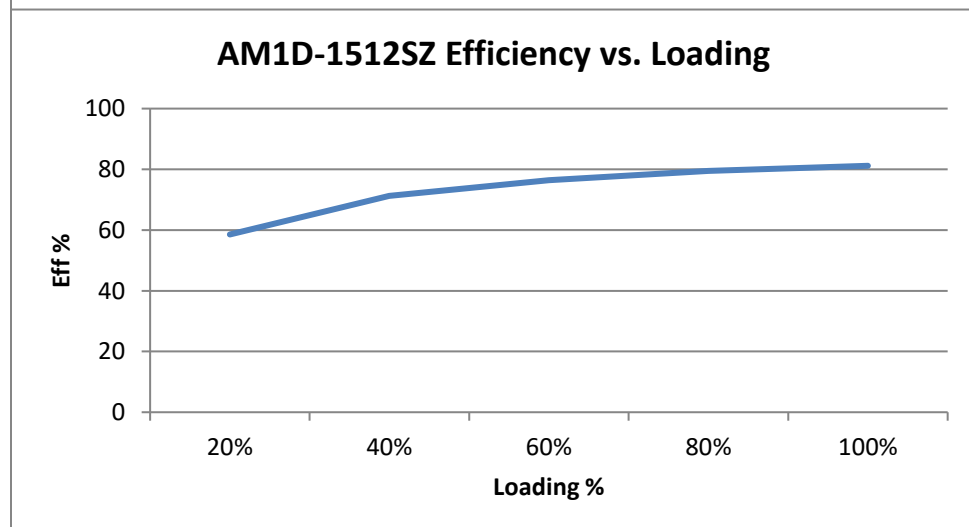
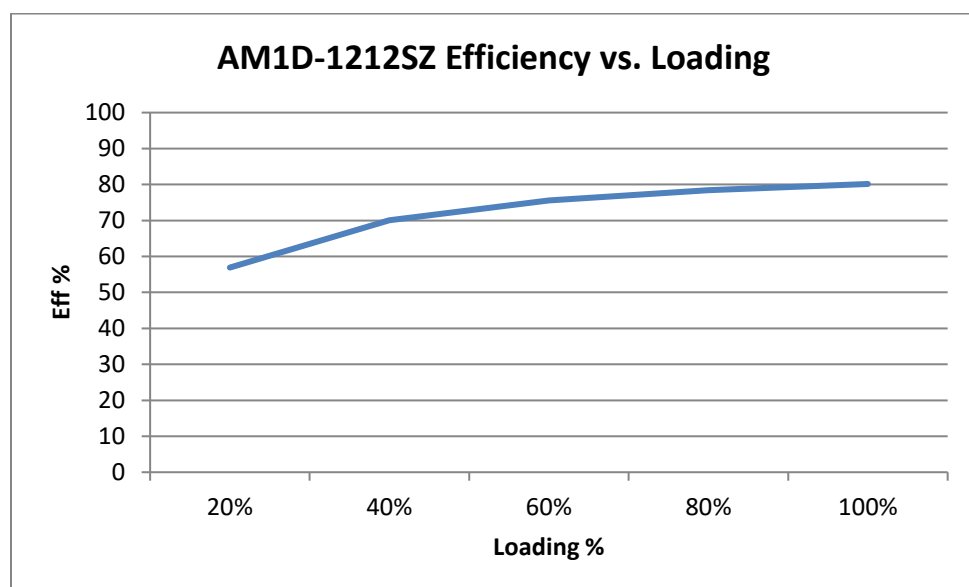
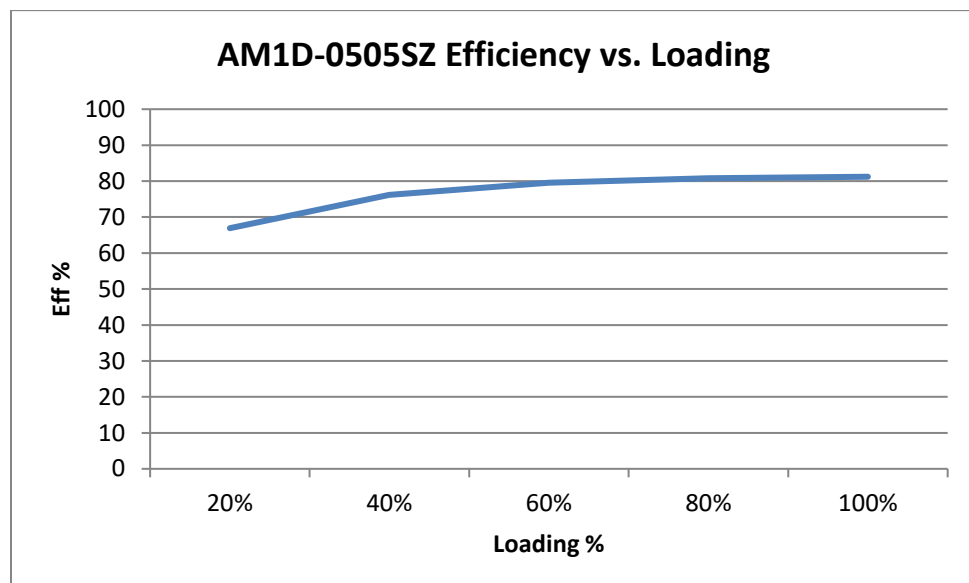
Vin	C1	C2	L	C3
3.3, 5, 12, 15 VDC	2.2 $\mu$ F/100V	-	18 $\mu$ H	-
24VDC		2.2 $\mu$ F/100V		470pF/2KV
48VDC	10 $\mu$ F/100V			

## EFT/Surge Application circuit



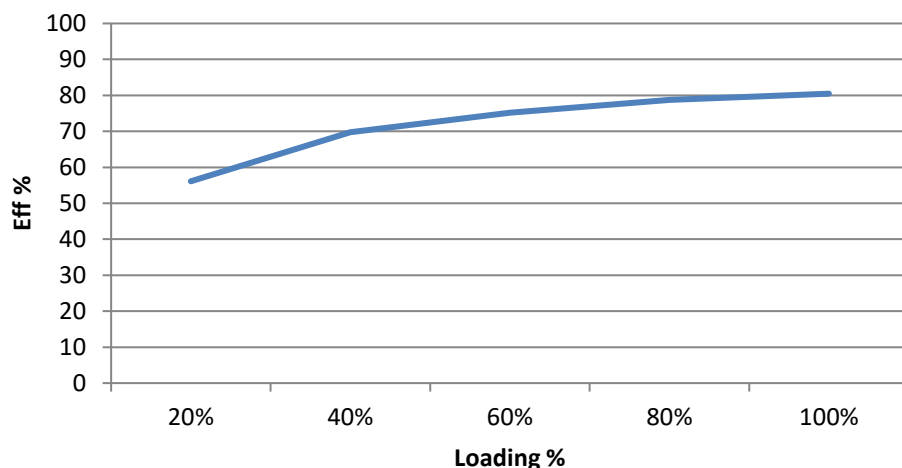
Vin	C1	D1
3.3VDC	2200 $\mu$ F/100V	TVS, 5V
5VDC		TVS, 6.5V
12VDC		TVS, 14V
15VDC		TVS, 18V
24VDC		TVS, 26V
48VDC		TVS, 51V

## Typical Efficiency Chart Examples

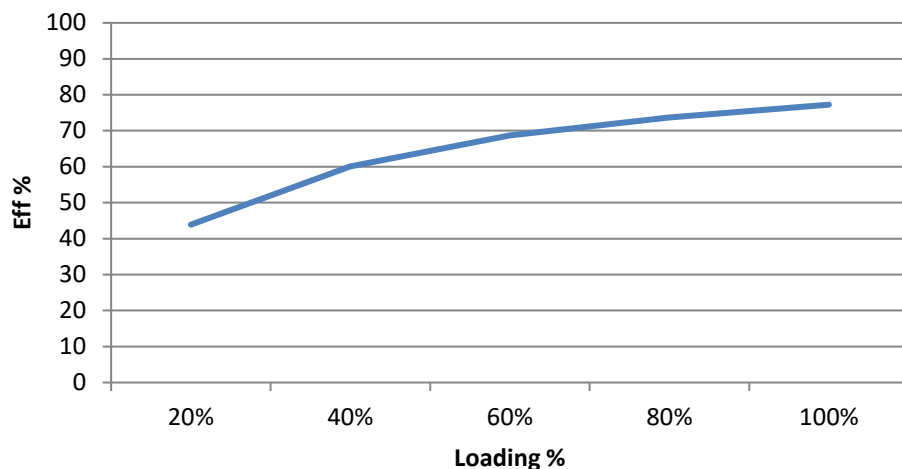




### AM1D-2412SZ Efficiency vs. Loading



### AM1D-4824SZ Efficiency vs. Loading



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