

**AC Adapters — Medical Grade**

**MSM/MS SERIES**

**Features:**

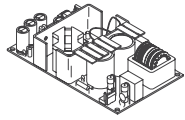
- Wide range AC input • Fully regulated output
- Medical grade approval • 5 Year Warranty • Meets FCC class B, CISPR 11 class B (MS Series Only)
- EMC per EN60601-1-2

**Output Specifications:**

- Line Regulations: ±0.5% (typical) • Load Regulations: ±2% (typical) • Short Circuit Protection: Pulsing mode, auto recovery • Ripple/noise (V<sub>r-p</sub>): ±1% (20MHz bandwidth)

**Safety Approvals:**

- For safety ratings and certifications, please see data sheet for specified series.



**MW SERIES**

**Features:**

- 3-pin IEC 320 inlet • Wide range AC input • Fully regulated output • 5 Year Warranty • Meets FCC class B, CISPR 11 class B • Input Connector (P1): IEC 60320 inlet plug • Output Connector (P2): Barrel type (5.5 mm x 2.5mm x 9.5mm), Switchcraft P/N760 (MW65: DIN-5 pin circular connector, MW90: DIN-8 pin circular connector) • Level B EMI filter

**Output Specifications:**

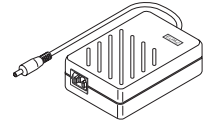
- Line Regulation: ±1% (typical) • Load Regulation: ±5% (typical) • Short circuit protected: Pulsing mode, auto recovery • Ripple and Noise (V<sub>r-p</sub>): <1% (20MHz bandwidth)

**Safety Approvals:**

- CSA C22.2 No. 60601.1-M90 • UL 60601-1, 2nd Edition • cTUVus • IEC 60601-1 • CE Marked • EN60601-1-2:2001

**Mating Connectors for 760 Plug: CP-1028**

**Mating Connectors for 8-Pin DIN Plug: CP-1180 In-Line Receptacle or CP-1280 Panel Mount Receptacle**



Series	AC Input	DC Outputs Single	Mating Connectors		Housing Output	Contacts	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
			Max. Watts	Housing Input					1	5	10	
<b>Internal — Single Output</b>												
MSM07	100 – 240VAC, 50 – 60Hz	5.1V @ 1.4A	7	WM18874	WM18873	WM17406	2.28 x 2.00 x 0.713 (57.90 x 50.80 x 18.10)	EPS342-ND	30.20	27.18	25.07	MSM0705
		12V @ 0.6A						EPS343-ND	30.20	27.18	25.07	MSM0712
		24V @ 0.3A						EPS345-ND	30.20	27.18	25.07	MSM0724
		28V @ 0.3A						EPS346-ND	30.20	27.18	25.07	MSM0728
MSM20	100 – 240VAC, 50 – 60Hz	12V @ 1.67A	20	8.0" Leads	8.0" Leads	—	3.54 x 2.16 x 0.71 (90.00 x 55.00 x 18.00)	EPS308-ND	43.95	39.57	36.49	MSM2012
		15V @ 1.34A						EPS309-ND	43.95	39.57	36.49	MSM2015
		24V @ 0.84A						EPS310-ND	43.95	39.57	36.49	MSM2024
MSM28	100 – 240VAC, 50 – 60Hz	12V @ 2.3A	28	A19953	A19952	A19993CT	4.00 x 2.60 x 1.00 (101.60 x 66.15 x 25.40)	EPS311-ND	48.60	43.76	40.36	MSM2812
		15V @ 1.9A						EPS312-ND	48.60	43.76	40.36	MSM2815
		24V @ 1.2A						EPS313-ND	48.60	43.76	40.36	MSM2824
MSM40F	90 – 264VAC, 47 – 63Hz	12V @ 3.3A	40	A19951	A19954	A19993CT	5.00 x 3.00 x 1.06 (127.00 x 76.20 x 26.90)	EPS365-ND◆	35.91	34.55	32.77	MS4012F
		15V @ 2.6A						EPS366-ND◆	35.91	34.55	32.77	MS4015F
		18V @ 2.2A						EPS367-ND◆	35.91	34.55	32.77	MS4018F
		24V @ 1.67A						EPS368-ND◆	35.91	34.55	32.77	MS4024F
MSM60	100 – 240VAC, 50 – 60Hz	12V @ 5.0A	60	WM2101	WM2102	WM2300CT	5.00 x 3.00 x 1.30 (127.00 x 76.20 x 33.00)	EPS318-ND	61.19	58.76	56.92	MSM6012
		24V @ 2.5A						EPS319-ND	61.19	58.76	56.92	MSM6024
MSM65F	100 – 240VAC, 50 – 60Hz	12V @ 5.4A	65	A19951	A19954	A19993CT	5.00 x 3.00 x 1.10 (127.00 x 76.20 x 28.00)	EPS369-ND◆	54.93	54.38	50.15	MS6512F
		15V @ 4.3A						EPS370-ND◆	54.93	54.38	50.15	MS6515F
		24V @ 2.7A						EPS371-ND◆	54.93	54.38	50.15	MS6524F
MSM75	90 – 264VAC, 47 – 63Hz	15V @ 5.0A	75	A19953	A19957	A32533	5.75 x 3.40 x 1.66 (146.05 x 86.36 x 42.24)	EPS354-ND	65.92	59.33	54.72	MSM7515
		24V @ 3.1A						EPS348-ND	65.92	59.33	54.72	MSM7524
		28V @ 2.7A						EPS349-ND	65.92	59.33	54.72	MSM7528
MSM80F	85 – 264VAC, 47 – 63Hz	9V @ 8.8A	80	A19951	A19954	A19993CT	4.00 x 2.00 x 1.1 (101.60 x 50.8 x 27.94)	EPS389-ND◆	90.08	81.08	74.77	MSM8009F
		12V @ 6.6A						EPS390-ND◆	90.08	81.08	74.77	MSM8012F
		15V @ 5.3A						EPS391-ND◆	90.08	81.08	74.77	MSM8015F
		24V @ 3.4A						EPS392-ND◆	90.08	81.08	74.77	MSM8024F
MSMP115F	85 – 264VAC, 47 – 63Hz	12V @ 9.6A	115	A19953	A19956	A31398CT	5.25 x 3.30 x 1.50 (133.35 x 83.82 x 38.10)	EPS393-ND◆	141.56	127.41	117.50	MSMP11512F
		15V @ 7.7A						EPS394-ND◆	141.56	127.41	117.50	MSMP11515F
		24V @ 4.8A						EPS395-ND◆	141.56	127.41	117.50	MSMP11524F
		28V @ 4.1A						EPS396-ND◆	141.56	127.41	117.50	MSMP11528F
MSMP150F	100 – 240VAC, 47 – 63Hz	12V @ 15.0A	150	WM23610	WM3703	WM18518	7.00 x 4.50 x 1.70 (177.80 x 114.30 x 43.18)	EPS397-ND◆	218.78	196.91	181.59	MSMP15012F
		15V @ 12.0A						EPS398-ND◆	218.78	196.91	181.59	MSMP15015F
		24V @ 7.5A						EPS399-ND◆	218.78	196.91	181.59	MSMP15024F
		28V @ 6.4A						EPS400-ND◆	218.78	196.91	181.59	MSMP15028F
		48V @ 3.8A						EPS401-ND◆	218.78	196.91	181.59	MSMP15048F
MSMP250F	100 – 240VAC, 47 – 63Hz	12V @ 28.0A	250	—	—	A31086	8.00 x 5.00 x 1.50 (203.20 x 127.00 x 38.10)	EPS402-ND◆	257.38	231.65	213.63	MSMP25012F
		15V @ 23.0A						EPS403-ND◆	257.38	231.65	213.63	MSMP25015F
		24V @ 14.5A						EPS404-ND◆	257.38	231.65	213.63	MSMP25024F
		28V @ 12.5A						EPS405-ND◆	257.38	231.65	213.63	MSMP25028F
		48V @ 7.4A						EPS406-ND◆	257.38	231.65	213.63	MSMP25048F
<b>Multiple Output</b>												
MSM40	85 – 264VAC, 47 – 63Hz	5.1V @ 4A, 12V @ 2A, -12V @ 0.4A	40	A19951	A19954	A31398CT	5.00 x 3.00 x 1.38 (127.00 x 76.20 x 35.05)	EPS339-ND	71.40	64.26	59.27	MSM40A
		5.1V @ 4A, 15V @ 2A, -15V @ 0.4A						EPS340-ND	71.40	64.26	59.27	MSM40B
		5.1V @ 4A, 24V @ 1A, -12V @ 0.4A						EPS341-ND	71.40	64.26	59.27	MSM40D
<b>External (requires power cord Q132 or Q133)</b>												
MW12	100 – 240VAC, 50 – 60Hz	12V @ 1.0A	12	—	—	—	3.35 x 1.97 x 1.30 (85.00 x 50.00 x 33.00)	EPS323-ND	35.78	32.21	29.70	MW1212-760-NC-WH
		12V @ 1.0A						EPS407-ND	35.77	32.21	29.70	MW1212-760-NC-BK
		24V @ 0.5A						EPS324-ND	35.78	32.21	29.70	MW1224-760-NC-WH
MW24	100 – 240VAC, 47 – 63Hz	12V @ 2.0A	24	—	—	—	4.25 x 2.50 x 1.30 (108.00 x 64.50 x 33.00)	EPS325-ND	43.50	39.15	36.11	MW2412-760-NC-WH
		15V @ 1.6A						EPS326-ND	43.50	39.15	36.11	MW2415-760-NC-WH
		15V @ 1.6A						EPS408-ND	43.49	39.15	36.11	MW2415-760-NC-BK
		18V @ 1.33A						EPS327-ND	43.50	39.15	36.11	MW2418-760-NC-WH
		24V @ 1.0A						EPS328-ND	43.50	39.15	36.11	MW2424-760-NC-WH

◆ RoHS Compliant

(Continued)

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