

Interpoint® High Reliability DC-DC Converters



MSA 5 W



MHF+ 15 W



MHV 15 W



MFK 25 W



MTR 30 W



MWR 35 W



MFX 50 W



MFL 60 W



MOR 120 W

Interpoint® High Reliability DC-DC Converters and EMI Filters

DC-DC CONVERTERS ₁

MODEL (SERIES)	INPUT VOLTAGE (V)	OUTPUT VOLTAGE (V)	OUTPUT POWER (W)	EFFICIENCY (% TYPICAL)	OPERATING TEMPERATURE	AVAILABLE SCREENING	EMI FILTER ^{2, 3, 4}
MOR	16 to 40	3.3, 5, 6.3, 9.5, 12, 15 ±3.3, ±5, ±6.3 ±9.5, ±12, ±15	66 to 120	77 to 87	-55° to +125°C	Standard, ES, or 883, Class H-QML	FMCE-1528
MFL	16 to 40	3.3, 5, 12, 15, 28 ±5, ±12, ±15	50 to 65	76 to 86	-55° to +125°C	Standard, ES, or 883, Class H-QML	FMCE-1528 FMCE-0828
MFX	16 to 50	3.3, 5, 9, 12, 15	50	89 91	-55° to +125°C	Standard, ES or screened to 883 Class H	FMCE-0528 ⁵
MWR	16 to 50	+3.3 & ±12, +3.3 & ±15 +5 & ±12, +5 & ±15	30 to 35	81 to 85	-55° to +125°C	Standard, ES or screened to 883 Class H	FMCE-0528 ⁵
MTR 50 ²	16 to 50	3.3, 5, 8.5, 12, 15 ±5, ±12, ±15	20 to 30	76 to 84	-55° to +125°C	Standard, ES, or 883, Class H-QML	FMCE-0828 FMCE-0528 ⁵
MFK	16 to 50	1.8, 2.5, 3.3, 5, 5.2, 5.7, 12, 15, 28 ±5, ±7, ±12, ±15	10 to 25	72 to 86	-55° to +125°C	Standard, ES, or 883, Class H-QML	FMCE-0528 ⁵
MHV	16 to 50	3.3, 5, 12, 15 ±5, ±12, ±15	10 to 15	72 to 83	-55°C to +125°C	Standard, ES, or 883, Class H-QML	FMCE-0528 ⁵
		+5 & ±12, +5 & ±15	15	78			
MHF+	16 to 40	1.9, 3.3, 5, 5.2, 5.3, 12, 15, 28 ±5, ±12, ±15	6.65 to 15	62 to 84	-55° to +125°C	Standard, ES, or 883, Class H-QML	FMCE-0328
	16 to 48	+5 & ±12 +5 & ±15	15	75			
MSA+ ²	15 to 50	3.3, 5, 6.3, 12, 15 ±5, ±6.3, ±12, ±15	6	76	-55° to +125°C	Standard, ES, or screened to Class H	FMCE-0328, FMCE-0528 ⁵ or FMSA
MFP POL ²	3 to 6	0.8 to 3.5	5.6 to 16.5	73 to 92	-55° to +125°C	Side-Leaded, up to Class H- QML.	NA
MSA/MGA ²	16 to 40	5, 5.2, 12, 15 ±5, ±12, ±15	1.2 to 5	71 to 80	-55° to +125°C	Standard, ES, or 883, Class H-QML	FMSA
MCH ² /MGH ²	12 to 50	5, 12, 15 ±5, ±12, ±15	1.5	76 to 79	-55° to +125°C	Standard, ES, or 883, Class H-QML	FMSA

1. Product images are actual full size, however variations may occur due to printing.
2. Not shown on reverse.
3. All filters may be used with multiple converters up to the rated current of the filter.

4. Interpoint converters used with EMI input filters will meet MIL-STD-461C CE03 and CS01 and MIL-STD-461D, E and F CE102 and CS101 levels of conducted emissions.
5. FMCE-0528-TR has active transient suppression, FMCE-0528 does not.

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