

Interpoint® High Reliability DC-DC Converters



MSA 5 W



MHF+ 15 W



MHV 15 V



MFK 25 W



MTR 30 W



MWR 35 W



MFX 50 X



MFL 60 W



hMOR/MOR 120 W



cMOR 120 W

Interpoint® High Reliability DC-DC Converters and EMI Filters

DC-DC CONVERTERS ¹

MODEL (SERIES)	INPUT VOLTAGE (V _{DC})	OUTPUT VOLTAGE (V _{DC})	OUTPUT POWER (W)	TYPICAL EFFICIENCY (%)	OPERATING TEMPERATURE (°C)	AVAILABLE SCREENING	EMI FILTER ^{2,3,4}
cMOR	15 to 50	3.3, 5, 6.3, 9.5, 12, 15, 28 ±3.3, ±5, ±6.3, ±9.5, ±12, ±15	Up to 120	86 to 91	-55 to +105	Standard, ES	FMCE-1528
hMOR	15 to 50	3.3, 5, 6.3, 9.5, 12, 15, 28 ±3.3, ±5, ±6.3, ±9.5, ±12, ±15	Up to 120	78 to 81	-55 to +125	Non-QML Standard/SX /ES or screened to QML 883 Class H	FMCE-1528
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	Non-QML Standard, ES or QML 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	Non-QML Standard/SX /ES or screened to QML 883, Class H-QML	FMCE-1528 FMCE-0828
MFx	16 to 50	3.3, 5, 9, 12, 15 ±5, ±12, ±15, +5 & ±12, +5 & ±15	50	89 to 91	-55 to +125	Non-QML Standard/SX /ES or screened to QML 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	Non-QML Standard/SX /ES or screened to QML 883, Class H	FMCE-0528 ⁵
MTR 40	16 to 40	3.3, 5, 12, 15, 18 ±5, ±12, ±15 +5 & ±12, +5 & ±15	20 to 30	76 to 84	-55 to +125	Non-QML Standard, ES or QML 883, Class H-QML	FMCE-0328 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	Non-QML Standard/SX /ES or screened to QML 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	Non-QML Standard, ES or QML 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 to +125	Non-QML Standard, ES or QML 883, Class H-QML	FMCE-0528 ⁵
		+5 & ±12, +5 & ±15	10 to 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	Non-QML Standard, ES or QML 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	Non-QML Standard, ES or screened to QML 883 Class H-QML without SMD number	FMCE-0328, FMCE-0528 ⁵ or FMSA
MFP POL ²	3 to 6	0.8 to 3.5 Four pin-selectable, preset voltages, 0.8, 1.6, 2.5 and 3.3	5.6 to 16.5	73 to 92	-55 to +125	Side-Leaded, up to Class H-QML, Class K-QML	NA
MSA/ MGA ²	16 to 40	5, 5.2(MSA only), 12, 15 ±5, ±12, ±15	1.2 to 5	71 to 80	-55 to +125	Non-QML Standard/SX /ES or screened to QML 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	Non-QML Standard/SX /ES or screened to QML 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 meets 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.

Crane Aerospace & Electronics • Power Solutions • Interpoint Products

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