

# Interpoint® High Reliability DC-DC Converters



**MSA 5 W**



**MFK 25 W**



**MFX 50 W**



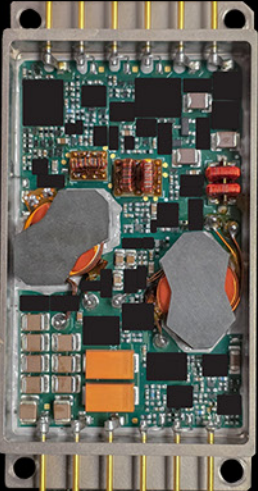
**MHF+ 15 W**



**MTR 30 W**



**MFL 60 W**



**cMOR 120 W**



**MHV 15 W**



**MWR 35 W**



**hMOR/MOR 120 W**

# Interpoint® High Reliability DC-DC Converters and EMI Filters

## DC-DC CONVERTERS <sup>1</sup>

MODEL (SERIES)	INPUT VOLTAGE (V <sub>DC</sub> )	OUTPUT VOLTAGE (V <sub>DC</sub> )	OUTPUT POWER (W)	TYPICAL EFFICIENCY (%)	OPERATING TEMPERATURE (°C)	AVAILABLE SCREENING	EMI FILTER <sup>2,3,4</sup>
cMOR	15 to 50	3.3, 5, 6.3, 9.5, 12, 15, 28 ±5, ±6.3, ±9.5, ±12, ±15	Up to 120	Up to 91	-55 to +105	Non-QML Standard, /ES	FMCE-1528
hMOR	15 to 50	3.3, 5, 6.3, 9.5, 12, 15, 28 ±5, ±6.3, ±9.5, ±12, ±15	Up to 120	Up to 87	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H) <sup>6</sup>	FMCE-1528
MOR	16 to 40	3.3, 5, 6.3, 9.5, 12, 15 ±3.3, ±5, ±6.3, ±9.5, ±12, ±15	Up to 120	Up to 87	-55 to +125	Non-QML Standard, /ES, or /883 (QML Class H)	FMCE-1528
MFL	16 to 40	3.3, 5, 12, 15, 28 ±5, ±12, ±15	Up to 65	Up to 86	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H)	FMCE-1528 FMCE-0828
MFX	16 to 50	3.3, 5, 9, 12, 15 ±15	Up to 50	Up to 91	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H)	FMCE-0528 <sup>5</sup>
MWR	16 to 50	+3.3 & ±12, +3.3 & ±15 +5 & ±12, +5 & ±15	Up to 35	Up to 85	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H)	FMCE-0528 <sup>5</sup>
MTR 40	16 to 40	3.3, 5, 12, 15, 18 ±5, ±12, ±15, +5 & ±12, +5 & ±15	Up to 30	Up to 84	-55 to +125	Non-QML Standard, /ES, or /883 (QML Class H)	FMCE-0328 FMCE-0528 <sup>5</sup>
MTR 50 <sup>2</sup>	16 to 50	3.3, 5, 8.5, 12, 15 ±5, ±12, ±15	Up to 30	Up to 84	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H)	FMCE-0828 FMCE-0528 <sup>5</sup>
MFK	16 to 50	1.8, 2.5, 3.3, 5, 5.2, 5.7, 12, 15, 28 ±5, ±7, ±12, ±15	Up to 25	Up to 86	-55 to +125	Non-QML Standard, /ES, or /883 (QML Class H)	FMCE-0528 <sup>5</sup>
MHV	16 to 50	3.3, 5, 12, 15 ±5, ±12, ±15	Up to 15	Up to 83	-55 to +125	Non-QML Standard, /ES, or /883 (QML Class H)	FMCE-0528 <sup>5</sup>
		+5 & ±12, +5 & ±15	Up to 15	Up to 78			
MHF+	16 to 40	1.9, 3.3, 5, 5.2, 5.3, 12, 15, 28 ±5, ±12, ±15	Up to 15	Up to 84	-55 to +125	Non-QML Standard, /ES, or /883 (QML Class H)	FMCE-0328
	16 to 48	+5 & ±12 +5 & ±15	Up to 15	Up to 75			
MSA+ <sup>2</sup>	15 to 50	3.3, 5, 6.3, 12, 15 ±5, ±6.3, ±12, ±15	Up to 6	Up to 76	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H) <sup>7</sup>	FMCE-0328, FMCE-0528 <sup>5</sup> or FMSA
MSA/MGA <sup>2</sup>	16 to 40	5, 5.2(MSA only), 12, 15 ±5, ±12, ±15	Up to 5	Up to 80	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H)	FMSA
MCH <sup>2</sup> /MGH <sup>2</sup>	12 to 50	5, 12, 15 ±5, ±12, ±15	Up to 1.5	Up to 79	-55 to +125	Non-QML Standard, /ES, /SX, or /883 (QML Class H)	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.
6. SMD pending DLA approval.
7. Pending DLA approval.

### Crane Aerospace & Electronics • Power Solutions • Interpoint Products

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