


MIL-COTS DC/DC's, Filters & Surge Protection


15.5 - 40 VDC Input / 5 - 50 Watts



MTF50
50 Watt MIL-STD filter
10 - 40 VDC input
DEF-STAN 59-41 & 61-5
MIL-STD 461E/F, 1275A-D
MIL-STD 704A-F, 810F




OPTIONAL




MTC05-50
5 - 50 Watts
10 - 40 VDC input
Single & dual output
MIL-STD 461E/F, 1275A-D
MIL-STD 704A-F, 810F


10 - 40 VDC Input / Up to 75 Watts



DSF100
100 Watt MIL-STD filter
Up to 3.7 A output
DEF-STAN 59-41 & 61-5
MIL-STD 461E/F, 1275A-D
MIL-STD 704A-F, 810F




OPTIONAL




MTH100
Increase hold up time
10 A output current
10 - 40VDC input
User programmable
98% efficiency


10 - 40 VDC Input / Up to 150 Watts



DSF200LV
200 Watt MIL-STD filter
Up to 7 A output
DEF-STAN 59-41 & 61-5
MIL-STD 461E/F, 1275A-D
MIL-STD 704A-F, 810F



OPTIONAL



MTH100
Increase hold up time
10 A output current
10 - 40VDC input
User programmable
98% efficiency

10 - 40 VDC Input / Up to 450 Watts



FSO461
500 Watt MIL-STD filter
Up to 28 A output
0 - 100VDC input
DEF-STAN 59-41
MIL-STD 461E/F
Passive EMI filter



DSF500
500 Watts
Up to 28 A output
DEF-STAN 61-5
MIL-STD 1275A-D
MIL-STD 704A-F, 810F



MTC75-150
150 Watts
10 - 40VDC input
Single & dual output
MIL-STD 461E/F, 1275A-D
MIL-STD 704A-F, 810F
Parallellable

Designed for vetronic & avionic use (MIL-STD 461E/F, 1275A-D, 704A-F & 810F, DEF STAN 59-41 & 61-5)

Commercial off-the-shelf (COTS) is a term for components which are manufactured commercially, readily available, and are non-development items. This term is most often used in military systems. COTS systems are in contrast to systems that are produced entirely and uniquely for the specific application and therefore offer potentially large cost and time savings.

DC/DC Converters

Space Required	Series	Output Power	Input Range	Surge Input	Output Voltage	Inhibit	Sync	Voltage Trim	Overtemp. Warning	Current Share	MIL-STD 461F	DEF-STAN 59-41	MIL-STD 704A	MIL-STD 704B-F	MIL-STD 1275A-D	DEF-STAN 61-5
Mini 5W (1.26 x 0.76 x 0.34 in) (32 x 19.3 x 8.7 mm)	MTC05	5 W	15-40 V	10-50V	3.3-28V	●	●	●	●		▲	▲	▲	●	▲	▲
Mini 15W (1.58 x 1.02 x 0.38 in) (40.0 x 26.0 x 9.7 mm)	MTC15	15 W	15-40 V	10-50V	3.3 - 28 V ±12 - ±15V	●	●	●	●		▲	▲	▲	●	▲	▲
Mini 35W (2.28 x 1.81 x 0.50 in) (58.0 x 46.0 x 12.7 mm)	MTC30	35 W	15-40 V	10-50V	3.3 - 28 V ±12 - ±15V	●	●	●	●		▲	▲	▲	●	▲	▲
2 x 1.1 (2.00 x 1.10 x 0.40 in) (50.8 x 27.9 x 10.2 mm)	MTC35†	35 W	10-40 V	50V	3.3 - 28 V	●	●	●	●		▲	▲	▲	●	▲	▲
1/4 Brick (2.28 x 1.45 x 0.50 in) (57.9 x 36.8 x 12.7 mm)	MTC50^	50 W	10-40 V	50V	3.3 - 28 V	●	●	●	●		▲	▲	▲	●	▲	▲
1/2 Brick (2.40 x 2.28 x 0.50 in) (61 x 57.9 x 12.7 mm)	MTC75	75 W	10-40 V	50V	3.3 - 28 V ±12 - ±15V	●	●	●	●		▲	▲	▲	●	▲	▲
1/2 Brick (2.40 x 2.28 x 0.50 in) (61 x 57.9 x 12.7 mm)	MTC150	150 W	10-40 V	50V	3.3 - 28 V ±12 - ±15V	●	●	●	●		▲	▲	▲	●	▲	▲

† Available Q4 2010

^ Available Q3 2010

● Compliant

▲ Compliant with MTF50 or DSF series module

Filters and Surge Protection Modules

Space Required	Series	Output Power/ Current Rating	Input Range	Inhibit	Overtemp. Protection	Reverse Voltage Protection	MIL-STD 461E/F	DEF STAN 59-41	MIL-STD 704A-F	MIL-STD 1275A-D	DEF STAN 61-5
Mini Filter (1.57 x 1.25 x 0.51 in) (39.9 x 31.9 x 12.9 mm)	DSF100	100 W / 3.7 A	10 - 33 V	●	●	●	●	●	●	●	●
Mini Filter (1.57 x 1.02 x 0.50 in) (40.0 x 26.0 x 12.7 mm)	MTF50	50 W	10 - 40 V	●	●		●	●	●	●	●
1/4 Brick (2.41 x 1.45 x 0.51 in) (61 x 36.8 x 12.9 mm)	DSF200LV	200 W / 7 A	10 - 33 V	●	●	●	●	●	●	●	●
1/2 Brick (2.28 x 2.28 x 0.51 in) (57.9 x 57.9 x 12.9 mm)	DSF500	500 W / 28 A	10 - 33 V	●	●	●			●	●	●
1/2 Brick (2.28 x 2.28 x 0.51 in) (57.9 x 57.9 x 12.9 mm)	FSO461	500 W / 28 A	10 - 33 V				●	●			

● Compliant Note: When selecting input filter for DC/DC converter, consider minimum input voltage and DC/DC efficiency - consult XP Power for assistance