

MIL-COTS AC-DC & DC-DC POWER SOLUTIONS

5 to 50W, 15.5 to 40VDC Input DC-DC

Filter & Surge Protector

MTF50

- 50W MIL-STD filter
- Regulated outputs <50VDC
- DEF-STAN 59-411 & 61-5
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



Hold-up Module (optional)

MTH100

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



DC-DC Converter

MTC05

- 5W
- Regulated outputs 3.3-30VDC
- Single output
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



MTC15

- 15W
- Regulated outputs 3.3-30VDC
- Single & dual output
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



MTC30

- 30W
- Regulated outputs 3.3-30VDC
- Single & dual output
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



MTC35

- 35W
- Regulated outputs 3.3-28VDC
- Single output
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



MTC50

- 50W
- Regulated outputs 3.3-28VDC
- Single & dual output
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



75 to 150W, 10 to 40VDC Input DC-DC

Filter & Surge Protector

DSF100

- 100W, up to 3.7A output
- Regulated outputs <36VDC
- DEF-STAN 59-411 & 61-5
- MIL-STD 461G, 1275A-D
- MIL-STD 704A-F, 810G



DSF200LV/ DSF226

- 200W, up to 7A output
- DEF-STAN 59-411
- DEF-STAN 61-5 & pt.6 Iss.6
- MIL-STD 461G, 1275A-E*
- MIL-STD 704A-F, 810G



Hold-up Module (optional)

MTH100

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



DC-DC Converter

MTC75

- 75W
- Regulated outputs 3.3-28VDC
- Single & dual output
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



MTC150

- 150W
- Regulated outputs 3.3-28VDC
- Single & dual output
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



75 to 600W, 10 to 33VDC Input DC-DC

Filter

FSO461

- 500W, up to 28A output
- 0-100VDC input
- DEF-STAN 59-411
- MIL-STD 461G



Surge Protector

DSF500

- 500W, up to 28A output
- Regulated outputs <36VDC
- DEF-STAN 61-5
- MIL-STD 1275A-E
- MIL-STD 704A-F, 810G



DC-DC Converter

QSB75

- 75W
- Regulated outputs 3.3-24VDC
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



QSB100

- 100W
- Regulated outputs 3.3-24VDC
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



QSB150

- 150W
- Regulated outputs 3.3-24VDC
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



QSB200

- 200W
- Regulated outputs 3.3-48VDC
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



QSB350

- 350W
- Regulated outputs 3.3-48VDC
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



QSB600

- 600W
- Regulated outputs 12-48VDC
- MIL-STD 461G, 1275A-E
- MIL-STD 704A-F, 810G



65W Rugged AC-DC Desktop

External AC-DC Power Supply

MCS65

- 65W convection cooled
- IP67 ingress protection
- -40°C to +70°C operating range
- MIL-STD-461G, 810G
- <0.5W no load input power



Designed for vetronic & avionic use (MIL-STD 461G, 1275A-E, 704A-F & 810G, DEF-STAN 59-411 & 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 defense 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

Package Size	Series	Output Power	Input Range	Surge Input	Output Voltage	Inhibit	Sync	Voltage Trim	Overtemp. Warning	Current Share	MIL-STD 461G	DEF-STAN 59-411	MIL-STD 704A	MIL-STD 704B-F	MIL-STD 1275A-E	DEF-STAN 61-5
1.26 x 0.76 x 0.34in (32 x 19.3 x 8.7mm)	MTC05	5W	15-40VDC	50VDC	3.3-28VDC	•	•	•	•		◊	◊	◊	•	◊	◊
1.58 x 1.02 x 0.38in (40.0 x 26.0 x 9.7mm)	MTC15	15W	15-40VDC	50VDC	3.3-28VDC ±12 - ±15	•	•	•	•		◊	◊	◊	•	◊	◊
2.28 x 1.81 x 0.50in (58.0 x 46.0 x 12.7mm)	MTC30	30W	15-40VDC	50VDC	3.3-28VDC ±12 - ±15	•	•	•	•		◊	◊	◊	•	◊	◊
2.00 x 1.00 x 0.40in (50.8 x 35.4 x 10.2mm)	MTC35	35W	10-40VDC	50VDC	3.3-28VDC ±12 - ±15	•	•	•	•		◊	◊	◊	•	◊	◊
1/4 Brick (2.28 x 1.45 x 0.50in) (57.9 x 36.8 x 12.7mm)	MTC50	50W	10-40VDC	50VDC	3.3-28VDC ±12 - ±15	•	•	•	•		◊	◊	◊	•	◊	◊
1/2 Brick (2.40 x 2.28 x 0.50in) (61 x 57.9 x 12.7mm)	MTC75	75W	10-40VDC	50VDC	3.3-28VDC ±12 - ±15	•	•	•	•	•	◊	◊	◊	•	◊	◊
1/2 Brick (2.40 x 2.28 x 0.50in) (61 x 57.9 x 12.7mm)	MTC150	150W	10-40VDC	50VDC	3.3-28VDC ±12 - ±15	•	•	•	•	•	◊	◊	◊	•	◊	◊
1/2 Brick (2.40 x 2.28 x 0.50in) (61 x 57.9 x 12.7mm)	QSB300	300W	9-36VDC	N/A	5-48VDC	•	•				◊	◊	◊	◊	◊	◊
Full Brick (4.60 x 4.00 x 0.50in) (116.8 x 101.6 x 12.7mm)	QSB400	400W	9-36VDC	N/A	5-48VDC	•	•				◊	◊	◊	◊	◊	◊

- Compliant
- ◊ Compliant with MTF50 or DSF series modules
- ◻ Limited to MIL-STD 1275 A-D*

Filters, Surge Protection & Hold Up Modules

Package Size	Series	Output Power/Current Rating	Steady State Input Range	Inhibit	Overtemp. Protection	Reverse Voltage Protection	MIL-STD 461G	DEF-STAN 59-411	MIL-STD 704A-F	MIL-STD 1275A-E	DEF-STAN 61-5 P6 Issue 5	DEF-STAN 61-5 P6 Issue 6
1.57 x 1.25 x 0.51in (39.9 x 31.9 x 12.9mm)	DSF100 ⁽¹⁾	100W/3.7A	10-33VDC	•	•	•	•	•	•	•	•	•
1.57 x 1.02 x 0.50in (40.0 x 26.0 x 12.7mm)	MTF50 ^(1,2)	50W	10-40VDC	•	•		•	•	•	•	•	•
1.57 x 1.02 x 0.50in (40.0 x 26.0 x 12.7mm)	MTH100 ⁽³⁾	100W/10A	10-40VDC		•		•			•		
1/4 Brick (2.41 x 1.45 x 0.51in) (61 x 57.9 x 12.9mm)	DSF200LV ^(1,2)	7A	10-33VDC	•	•	•	•	•	•	•	•	•
	DSF226 ^(1,2)	200W	15-33VDC	•	•	•	•	•	•	◻	•	•
1/2 Brick (2.28 x 2.28 x 0.51in) (57.9 x 57.9 x 12.9mm)	DSF500 ⁽²⁾	500W/28A	10-33VDC	•	•	•			•	•	•	•
1/2 Brick (2.28 x 2.28 x 0.51in) (57.9 x 57.9 x 12.9mm)	FS0461 ⁽¹⁾	500W/28A	10-33VDC				•	•				

Notes:

When selecting input filter for DC-DC converter, consider minimum input voltage and DC-DC efficiency - consult XP Power for assistance. Please review full product data sheets and application notes in conjunction with this selector guide.

1. Filter
2. Surge protector
3. Hold up module