



COTS/MOTS

PRODUCT SELECTION GUIDE

- DC-DC CONVERTERS
- AC-DC CONVERTERS
- INVERTERS
- UPS
- VPX VITA 62
- VME
- PDU-SSPC

powerful
products
smart
solutions



All products comply with MIL-STD-704, MIL-STD-1275, MIL-STD-461 and MIL-STD-810.
All units can be modified to meet your requirements. See our website for detailed data sheets.



For over 30 years, Milpower Source has been providing MOTS and custom power supplies for military, aerospace, civilian aircraft and the ruggedized commercial marketplace. Milpower Source is the premier designer and developer of field-proven custom power converters for demanding applications ranging from ground vehicles to airborne and naval platforms:

- Avionics • Military Aircraft • Commercial Aircraft • Radar Arrays • Electronic Warfare • Missiles • UAVs
- Emergency Systems • Surface Ships • Submarines • C4ISR and many more...

We offer a wide variety of COTS and MOTS units (DC/DC, AC/DC, DC/AC, GCU and UPS) that are MIL-STD compliant (MIL-STD-704, MIL-STD-461, MIL-STD- 810, MIL-STD-1275 and MIL-STD-1399).

Milpower Source invites you to engage our highly skilled engineering team to accomplish your power conversion requirements for military, rugged, and critical avionics systems as well as in power, analog, digital, magnetic, RF, thermal and mechanical design techniques. Our engineering team can analyze your power application and suggest custom solutions that will offer better, longer-term durability.

This Product Selection Guide includes our MOTS units offering hundreds of possibilities for the exact fit for your application. All units can be modified and the customer can define each output, input range, protection limits, and mechanics according to their needs without additional NRE.

DC/DC CONVERTERS [INPUT RANGE 18-48V]

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
SINGLE OUTPUT				
50W	M7419	2.35" X 2" X 0.49"	1.8V to 50V	12A
75W	M7009	3.26" X 1.83" X 0.72"	1.8V to 50V	10A
150W	M7228	4.38" X 2.76" X 0.61"	2V to 15V	50A
200W	M7318	4.2" X 2.5" X 0.5"	3.3V to 50V	18A
200W	M6211	4.38" X 2.76" X 0.61"	1.5V to 50V	60A
400W (500W peak)	M7025	5.3" X 2.75" X 0.8"	3.3V to 50V	40A
400W (500W peak)	M7225	4" X 3.6" X 0.8"	3.3V to 50V	21A
400W (500W peak)	M7325	4.6" X 3.6" X 0.8"	3.3V to 50V	21A
400W (500W peak)	M6500	5.4" X 3.1" X 0.67"	2V to 15V	60A
320W	M4243	5.57" X 3.5" X 1.1"	270V to 320V	1A
440W (500W peak)	M4244	6.5" X 4.5" X 0.85"	3.3V to 270V	30A
500W (750W peak)	M7027	5.31" X 2.76" X 0.81"	18V to 48V	40A
800W (1000W peak)	M7425	6.24" X 4.64" X 1.15"	3.3V to 50V	50A
DUAL OUTPUT				
30W	M2786	2.35" X 2" X 0.49"	Out #1: 2V to 28V Out #2: 2V to 28V	Out #1: 5A Out #2: 5A
60W	M712	2.95" X 2.95" X 0.7"	Out #1: 2V to 50V Out #2: 2V to 50V	Out #1: 5A Out #2: 5A
80W	M8727	3.75" X 2.6" X 0.5"	Out #1: 2V to 50V Out #2: 2V to 50V	Out #1: 15A Out #2: 15A
125W	M8053 Input 18-70V	5.06" X 2.7" X 0.61"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V	Out #1: 12A Out #2: 12A
150W	M8253	5.4" X 3.1" X 0.61"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V	Out #1: 15A Out #2: 15A
150W	M8263	5.0" X 1.81" X .86"	Out #1: 3.3V to 18V Out #2: 1.2V to 5.5V	Out #1: 10A Out #2: 10A
TRIPLE OUTPUT				
50W	M8737	3.75" X 2.2" X 0.5"	Out #1: 3.3V to 50V Out #2: 3.3V to 50V Out #3: 3.3V to 50V	Out #1: 10A Out #2: 3A Out #3: 1.25A
125W	M8637 Input 18-70V	4.53" X 3.54" X 0.61"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V Out #3: 3.3V to 28V	Out #1: 12A Out #2: 6A Out #3: 6A
125W	M8337 Input 18-70V	4.73" X 3.54" X 0.61"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V Out #3: 3.3V to 28V	Out #1: 12A Out #2: 6A Out #3: 6A
600W	M7338	6.5" X 4.75" X 0.7"	Out #1: 3.3V to 50V Out #2: 3.3V to 50V Out #3: 3.3V to 50V	Out #1: 20A Out #2: 20A Out #3: 20A

*Customer select (built to order)

DC/DC CONVERTERS [INPUT RANGE 18-48V]

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
QUAD OUTPUT				
60W	M714	2.95" X 2.95" X 0.92"	Out #1: 2V to 50V Out #2: 2V to 50V Out #3: 3.3V to 50V Out #4: 3.3V to 50V	Out #1: 5A Out #2: 5A Out #3: 2A Out #4: 2A
60W	M8149	3.1" X 2.16" X 0.5"	Out #1: 2V to 30V Out #2: 2V to 24V Out #3: 2V to 24V Out #4: 2V to 24V	Out #1: 2A Out #2: 3A Out #3: 1.25A Out #4: 1.25A
100W	M8747	4.4" X 2.75" X 0.5"	Out #1: 2V to 50V Out #2: 2V to 50V Out #3: 2V to 24V Out #4: 2V to 24V	Out #1: 18A Out #2: 12A Out #3: 1.25A Out #4: 1.25A
125W	M8647 Input 18-70V	4.53" X 3.9" X 0.61"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V Out #3: 3.3V to 28V Out #4: 3.3V to 30V	Out #1: 12A Out #2: 6A Out #3: 6A Out #4: 3A
150W	M8453	5.5" X 3.25" X 0.61"	Out #1: 1.8V to 15V Out #2: 1.8V to 15V Out #3: 2V to 24V Out #4: 2V to 24V	Out #1: 18A Out #2: 15A Out #3: 1.25A Out #4: 1.25A
FIVE OUTPUT				
100W	M8757	4.49" X 2.75" X 0.5"	Out #1: 1.8V to 50V Out #2: 2V to 24V Out #3: 2V to 24V Out #4: 2V to 24V Out #5: 2V to 24V	Out #1: 24A Out #2: 3A Out #3: 1.25A Out #4: 1.25A Out #5: 1.25A
125W	M8657 Input 18-70V	4.92" X 3.9" X 0.61"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V Out #3: 3.3V to 28V Out #4: 3.3V to 28V Out #5: 3.3V to 24V	Out #1: 6A Out #2: 6A Out #3: 6A Out #4: 3A Out #5: 1.5A
SIX OUTPUT				
80W	M8767	3.9" X 2.5" X 0.5"	Out #1: 3.3V to 100V Out #2: 3.3V to 30V Out #3: 3.3V to 24V Out #4: 3.3V to 24V Out #5: 3.3V to 24V Out #6: 3.3V to 24V	Out #1: 1.25A Out #2: 1.25A Out #3: 3A Out #4: 1.25A Out #5: 1.25A Out #6: 3A
125W	M736	3.9" X 3.9" X 1"	Out #1: 1.2V to 5V Out #2: 1.2V to 5V Out #3: 1.2V to 5V Out #4: 1.2V to 5V Out #5: 3.3V to 15V Out #6: 12V to 28V	Out #1: 8A Out #2: 6A Out #3: 6A Out #4: 6A Out #5: 3A Out #6: 1.5A
125W	M8667 Input 18-70V	4.92" X 3.9" X 0.61"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V Out #3: 3.3V to 28V Out #4: 3.3V to 28V Out #5: 3.3V to 24V Out #6: 3.3V to 24V	Out #1: 6A Out #2: 6A Out #3: 6A Out #4: 3A Out #5: 1.25A Out #6: 1.25A
1KW	M4068 Input 18-70V	9.18" X 6.21" X .76"	Out #1: 3.3V Out #2: 5V Out #3: 12V Out #4: 12V Out #5: 12V Out #6: 12V	Out #1: 10A Out #2: 10A Out #3: 40A Out #4: 40A Out #5: 1A Out #6: 1A
EIGHT OUTPUT				
145W	M802 Input 18-70V	5.1" X 4.1" X 0.61"	Out #1: 1.8V to 50V Out #2: 1.8V to 50V Out #3: 1.8V to 50V Out #4: 1.8V to 28V Out #5: 1.8V to 28V Out #6: 1.8V to 50V Out #7: 1.8V to 50V Out #8: 1.8V to 50V	Out #1: 6A Out #2: 6A Out #3: 6A Out #4: 9A Out #5: 9A Out #6: 6A Out #7: 2A Out #8: 2A

*Customer select (built to order)

DC/DC CONVERTERS [INPUT RANGE 18-48V]

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
EIGHT OUTPUT				
145W	M814 Input 18-70V	6.5" X 3.3" X 0.61"	Out #1: 1.8V to 50V Out #2: 1.8V to 50V Out #3: 1.8V to 50V Out #4: 1.8V to 28V Out #5: 1.8V to 28V Out #6: 1.8V to 50V Out #7: 1.8V to 50V Out #8: 1.8V to 50V	Out #1: 12A Out #2: 6A Out #3: 6A Out #4: 3A Out #5: 3A Out #6: 3A Out #7: 3A Out #8: 3A
150W	M811	6.5" X 3.3" X 0.61"	Out #1: 1.8V to 50V Out #2: 1.8V to 50V Out #3: 1.8V to 50V Out #4: 1.8V to 50V Out #5: 1.8V to 50V Out #6: 1.8V to 50V Out #7: 1.8V to 50V Out #8: 1.8V to 50V	Out #1: 2A Out #2: 3A Out #3: 3A Out #4: 5A Out #5: 8A Out #6: 4A Out #7: 2A Out #8: 2A
360W	M821	7.874" X 6.34" X 1.18"	Out #1: 3.3V to 15V Out #2: 3.3V to 15V Out #3: 3.3V to 15V Out #4: 3.3V to 15V Out #5: 3.3V to 15V Out #6: 1.2V to 15V Out #7: 1.2V to 15V Out #8: 1.2V to 15V	Out #1: 7A Out #2: 2A Out #3: 4A Out #4: 4A Out #5: 3A Out #6: 10A Out #7: 15A Out #8: 15A
NINE OUTPUT				
250W	M635 Input 18-70V	7.68" X 4.72" X 0.81"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V Out #3: 3.3V to 28V Out #4: 3.3V to 28V Out #5: 3.3V to 28V Out #6: 3.3V to 50V Out #7: 1.8V to 50V Out #8: 1.8V to 50V Out #9: 1.8V to 50V	Out #1: 10A Out #2: 5A Out #3: 5A Out #4: 5A Out #5: 5A Out #6: 5A Out #7: 5A Out #8: 5A Out #9: 5A
TEN OUTPUT				
150W	M8110	5.1" X 4.1" X 0.61"	Out #1: 1.8V to 50V Out #2: 1.8V to 50V Out #3: 1.8V to 50V Out #4: 1.8V to 50V Out #5: 1.8V to 50V Out #6: 3.3V to 50V Out #7: 1.8V to 50V Out #8: 1.8V to 50V Out #9: 1.8V to 50V Out #10: 1.8V to 50V	Out #1: 2A Out #2: 5A Out #3: 5A Out #4: 2.5A Out #5: 2.5A Out #6: 0.7A Out #7: 2.5A Out #8: 5A Out #9: 2A Out #10: 2A

DC/DC CONVERTERS - [INPUT RANGE 220V-350V]

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
SINGLE OUTPUT				
200W	M6201	4.14" X 2.77" X 0.61"	1.8V to 28V	36A
350W (500W Peak)	M6204	5.4" X 3.5" X 0.75"	1.8V to 28V	50A
500W	M1115	5.67" X 3.5" X 1.1"	5V to 40V	40A
1000W	M183	6.44" X 3.7" X 1.5"	3.3V to 48V	55A
2000W	M186	6.9" X 5.81" X 1.6"	3.3V to 48V	80A

AC/DC CONVERTERS - SINGLE PHASE INPUT

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
SINGLE OUTPUT				
200W	M1981	6.2" X 4.6" X 0.79"	3.3V to 48V	20A
500W	M916	8" X 5" X 0.9"	3.3V to 48V	50A
1000W	M169	9.84" X 5.51" X 1.5"	3.3V to 270V	105A
QUAD OUTPUT				
150W	M185	8.19" X 6.34" X 0.81"	Out #1: 3.3V to 24V Out #2: 3.3V to 24V Out #3: 3.3V to 28V Out #4: 1.8V to 15V	Out #1: 5A Out #2: 5A Out #3: 10A Out #4: 40A

AC/DC CONVERTERS - TRIPLE PHASE INPUT

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
SINGLE OUTPUT				
400W	M174	6.6" X 5.66" X 1.1"	3.3V to 48V	80A
500W	M1115	5.67" X 3.5" X 1.1"	5V to 40V	40A
1000W	M183	6.44" X 3.7" X 1.5"	3.3V to 48V	55A
1500W	M286	8.86" X 6.3" X 1.9"	3.3V to 48V	60A
2000W	M186	6.9" X 5.81" X 1.6"	3.3V to 48V	80A
2000W	M251	6.45" X 5.45" X 1.45"	270 to 330V	7A
SINGLE/DUAL OUTPUT				
90W	M914	4.92" X 3.15" X 1.5"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V	Out #1: 8A Out #2: 8A
QUAD OUTPUT				
460W	M199	8.64" X 5.9" X 1.15"	Out #1: 1.8V to 15V Out #2: 1.8V to 15V Out #3: 1.8V to 24V Out #4: 1.8V to 24V	Out #1: 60A Out #2: 20A Out #3: 5A Out #4: 5A
FIVE OUTPUT				
300W	M191	6" X 5" X 1.25"	Out #1: 3.3V to 12V Out #2: 3.3V to 12V Out #3: 3.3V to 25V Out #4: 3.3V to 15V Out #5: 3.3V to 25V	Out #1: 15A Out #2: 15A Out #3: 4A Out #4: 4A Out #5: 9A
SIX OUTPUT				
500W	M4066	9.18" X 6.21" X .97"	Out #1: +15V Out #2: -15V Out #3: +8V Out #4: -8V Out #5: +5V Out #6: -5V	Out #1: 12A Out #2: 12A Out #3: 10.5A Out #4: 0.75A Out #5: 30A Out #6: 1.5A
SEVEN OUTPUT				
300W	M391	6" X 5.7" X 1.25"	Out #1: 3.3V to 28V Out #2: 3.3V to 28V Out #3: 3.3V to 13V Out #4: 3.3V to 13V Out #5: 3.3V to 13V Out #6: 3.3V to 12V Out #7: 3.3V to 12V	Out #1: 10A Out #2: 10A Out #3: 3A Out #4: 3A Out #5: 3A Out #6: 15A Out #7: 15A

DC/AC INVERTERS [INPUT RANGE 18-70V]

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
SINGLE PHASE - SINGLE OUTPUT				
100VA	M4242	3.44" X 3.44" X 1.34"	26Vac to 115Vac	2.3A
350VA (500VA peak)	M4252	7" X 6.5" X 0.85"	75Vac to 115Vac	4.3A
TRIPLE PHASE - SINGLE OUTPUT				
1050VA (1500VA peak)	M4252	7" X 6.5" X 0.85" Connection of 3 M4252 Single phase units	75Vac to 115Vac	4.3A

DC/DC PC BOARD UNITS [INPUT RANGE 18-48V]

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
SINGLE OUTPUT				
15W	M7117	2.17" X 1.17" X 0.49"	1.8V to 48V	4A
50W	M7119	1.99" X 1.99" X 0.49"	1.8V to 50V	8A
DUAL OUTPUT				
6W	M7878	1.38" X 1.38" X 0.49"	Out #1: 3.3V to 15V Out #2: 3.3V to 15V	Out #1: 0.25A Out #2: 0.25A
6W	M7879	1.97" X 1.02" X 0.49"	Out #1: 3.3V to 15V Out #2: 3.3V to 15V	Out #1: 0.25A Out #2: 0.25A
30W	M786	2" X 2" X 0.49"	Out #1: 1.8V to 50V Out #2: 1.8V to 50V	Out #1: 4A Out #2: 4A
TRIPLE OUTPUT				
20W	M647	2.56" X 1.99" X 0.47"	Out #1: 2.5V to 28V Out #2: 2.5V to 28V Out #3: 2.5V to 28V	Out #1: 2.0A Out #2: 2.0A Out #3: 2.0A
QUAD OUTPUT				
80W	M7874	2.95" X 2.6" X 0.52"	Out #1: 1.8V to 28V Out #2: 1.8V to 28V Out #3: 1.8V to 50V Out #4: 3.3V to 24V	Out #1: 5A Out #2: 5A Out #3: 3A Out #4: 1.25A
FIVE OUTPUT				
40W	M7159	2.4" X 1.2" X 0.39" Input 24-32V	Out #1: 5V to 15V Out #2: 1V to 3.3V Out #3: 3.3V to 24V Out #4: 3.3V to 24V Out #5: 3.3V to 24V	Out #1: 3A Out #2: 3A Out #3: 0.4A Out #4: 0.4A Out #5: 0.4A

AC/DC PC BOARD

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
TRIPLE OUTPUT				
100W	M7311	8.64" X 5.9" X 1.15"	Out #1: 1.8V to 15V Out #2: 1.8V to 15V Out #3: 1.8V to 24V	Out #1: 60A Out #2: 20A Out #3: 5A

DC/DC NON FLOATING UNITS

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
800W	M7048	3.62" X 3.62" X 1.61"	28V to 32V	37A

AC/DC NON FLOATING UNIT

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	MAX CURRENT*
650W	M495	4.52" X 3.93" X 1.57"	18V to 32V	36A

DC/DC HOLDUP UNITS | FOR USE IN FRONT OF MPS DC/DC UNITS.

HOLDUP TIME AND POWER	MODEL	DIMENSIONS	COMMENTS
150W-10ms	M250	3.7" X 2.56" X 0.55"	External capacitor can be added to increase power
No internal capacitor	M255	2.56" X 2.15" X 0.55"	External capacitor can be added to increase power
100W - 50ms	M256	4.52" X 4.72 X 0.55"	External capacitor can be added to increase power
400W - 50ms	M275	7" X 4.5" X 1.8"	

VPX VITA 62 DC/DC CONVERTER

POWER	MODEL	DIMENSIONS	VOLTAGE RANGE*	COMMENTS
380W	M4064	VPX VITA 62 3U	Output #VS1: 12V_Aux: 12V up to 17A with sense 12V up to 1.5A Output #VS2: 3.3V up to 25A with sense Output #VS3: 5V up to 30A with sense 3.3V_Aux: 3.3V up to 5A -12V_Aux: -12V up to 1.5A Vbat: 3.3V/400mA	*outputs VS1, VS2 and 12V_Aux can provide 200W max together, VS2 and 3.3V_AUX can provide 180W max together.
500W	M4066	VPX VITA 62 6U	Output #VS1: +15V/12A – with sense Output #VS2: -15V/12A – with sense Output #VS3: +8V/10.5A – with sense Output #VS4: -8V/0.75A – with sense Output #VS5: +5V/30A – with sense Output #VS6: -5V/1.5A – with sense	Output voltages can be modified
1000W	M4068	VPX VITA 62 6U	Output #VS1: 3.3V/10A, 3.3V_Aux +Sense Output #VS2: 5V/10A, P03 +Sense Output #VS3: 12V/40A, P01 (Current share) Output #VS4: 12V/40A, P02 & Sense) Output #VS5: +12V/1A, 12V_Aux Output #VS6: -12V/1A, -12V_Aux	Output voltages can be modified
600W	M4065	VPX VITA 62 3U	Output #VS1: 12V/30A Output #VS2: 3.3V/20A Output #VS3: 5V/30A Output #VS4: 12V/1A, 12V_AUX Output #VS5: -12V/1A, -12V_Aux Output #VS6: 3.3V/5A, 3.3V_Aux	Output voltages can be modified

SHIPBOARD UPS

POWER	MODEL	SIZE	BACKUP TIME	COMMENTS
2.0KW/2.5KVA	M359	19", 3U	10 minutes at 1.5KW	Full compliance with MIL-STD-1399 section 300B Complies with MIL-S-901D
2.5KW/3KVA	M362	19", 3U	130 min at 1KW 48 min at 2.4KW	External battery pack. Full compliance with MIL-STD-1399 section 300B Complies with MIL-S-901D

*Customer select (built to order)



Milpower Source, Inc.
 7 Field Lane
 Belmont, NH 03220 U.S.A
 phone: (603) 267-8865
 fax: (603) 267-7258
 sales@milpower.com

www.milpower.com



PROGRAMS

FIRECON • Zumwalt • Patriot • AN/TPY-2 • JLENS • NASAMS
 Falcon Edge • F16 • F22 • JSTARS • VADR • SABR • MESA
 AWACS • WEDGETAIL

OUR CUSTOMERS

Follow the lead of our long-term customers and you will agree - with Milpower Source as your program partner, you will have the most robust and reliable power solution for your most difficult power requirements and environmental conditions.

That's why Milpower Source continues to meet the most demanding needs of customers such as:



U.S. AIR FORCE

