



Military-Bus-Converter & POL DC/DC Converters Up To 600 Watts

The Power Professionals

*Power
Conversion
Products*



Features

- Industry standard half and full brick footprint
- Full military temperature range -55°C to +85°C operating baseplate
- 90% efficiencies
- MIL-STD-704D & 1275 compliant input
- All power management at POL
- POL converters up to 250 watts



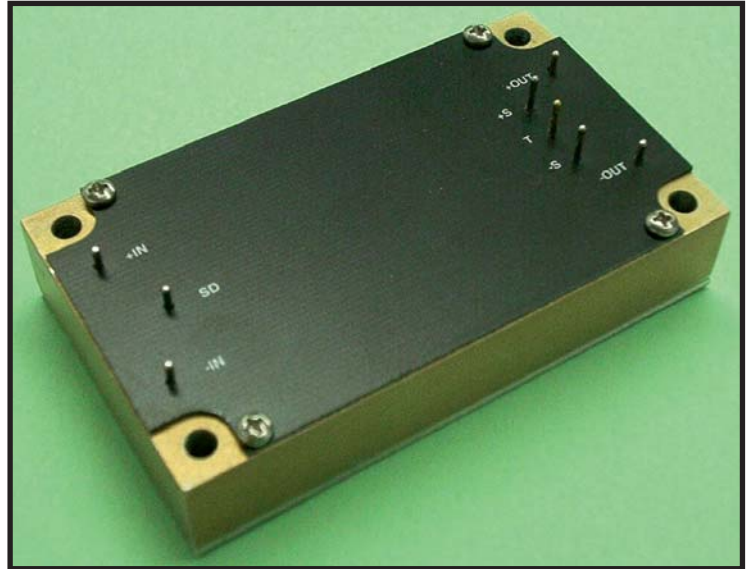
Prime Power reserves the right to change design and specifications at any time without prior notice. It is Prime Power's policy to improve product as new technologies and components become available.

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Prime Power's

Military-Bus-Converter 'MBC' series DC to DC front ends are designed to drive Prime Power's Point of Load (POL) regulators to meet the 12 Volt nominal high power levels required for intermediate Bus architectures. Prime Power's military bus converter and POL's are designed to meet demanding military and aerospace requirements.



MBC Specifications

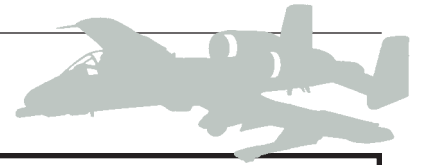
Input:	270 Vdc nominal (220-400 Vdc) 600 watts max power on input or 28 Vdc (18-40 Vdc)
Input Power Characteristics:	MIL-STD-704 (meets normal and abnormal operation: MIL-STD-1275A (with battery support))
Temperature:	Operating -55 to +85°C, Baseplate; -60 to +100°C, Storage.
Humidity:	MIL-STD-810 'L' procedure 507.1 method IV
I/O Connection:	PC board mount
Dimensions:	4.6 x 2.4 x .5
Altitude:	To 70,000 feet
Shock:	MIL-S-501C, Grade A, type A, high impact shock
Vibration:	MIL-E-5400, curve IVA, 5Hz to 2000 Hz
Salt Spray:	MIL-STD-810C, method 509, procedure 1



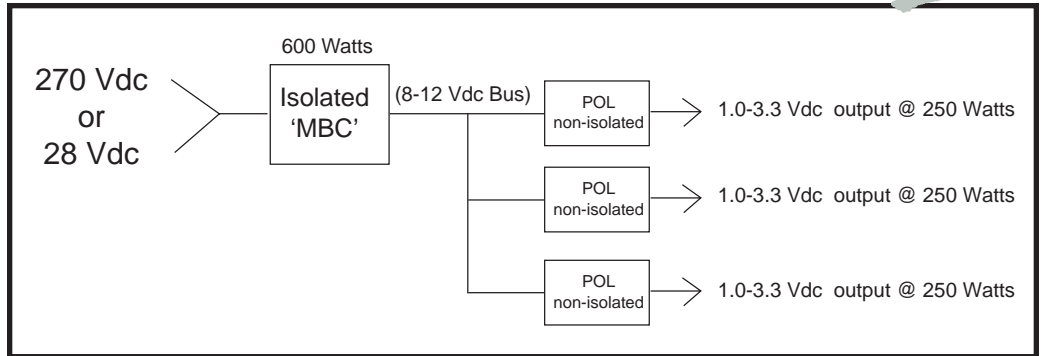
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Typical Configuration



POL Specifications

Input Range:	11-14 Vdc
Output Voltage:	1.0 Vdc - 3.3 Vdc @ up to 80 Amps
Load Regulation:	Max deviation 1% for a load change of 20% to 80% of F.L.
Static Regulation:	1% max combined line and load max
Ripple & Noise P-P Max (10Hz-20MHz):	2% of normal V out
Output Overshoot (Typical):	1% max of V out
Remote On/Off:	Yes
Overload Protection:	Limited to 120% max F.L., auto recover
Over Voltage Protection:	Non shutdown type, trip point typical 130% V out
Efficiency typical:	92% (3.3 V out)
Temperature:	Operating -55 to +85°C Ambient; -60 to +100°C Storage.
Humidity:	MIL-STD-810L procedure 5-7.1 method IV
I/O Connection:	PC board mount
Dimensions:	2.4 x 2.3 x .5
Altitude:	To 70,000 feet
Shock:	MIL-S-501C, Grade A, type A, high impact shock
Vibration:	MIL-E-5400, curve IVA, 5Hz to 2000 Hz
Salt Spray:	MIL-STD-810C, method 509, procedure 1

Features

- Wide input military Bus Converter
- Fast transient response POL's.
- Meets demanding military applications
- On/Off control
- Custom configurations upon request

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***separate E.M.I. filter needed to meet MIL-STD-461 requirements.**

