## P R R X

Meets MIL-STD-461F

**Features** 

Frequency

POWERBOX Defense Line
PBUS10412
80W
AC/DC Single Output Switch Mode Adaptor

Operating temperature -40°C to +60°C	
Rugged design, partly potted	
Overload, over voltage	protection with auto recovery
Desktop or shelf mount	
Input	
Voltage range	100-240VAC nominal
Rated voltage	90-264VAC

47-63Hz

Output	
DC output	12VDC
Voltage tolerance	+10% to -5% max. 0-100% load, -40°C to +60°C
Ripple and noise	150mV p-p max.
Power	80W
Minimum load	OA
Hold up time	10ms min. at 75% load
Overvoltage protection	At 135% max.
Over current	Short circuit and over current protection
	(auto-resetting).
Over temp. protection	Yes, limits output power, auto-resetting
Efficiency	85% or better at 75% load

Environmental	
Operating temperature	See table
Storage temperature	-40°C to +71°C
Humidity	Operating: Up to 95% relative humidity without
	condensation. Storage: Up to 95% relative
	humidity without condensation
Cooling	Natural convection
Altitude	0-50,000 ft operating, 0-60,000 ft storage
Shock and vibration	The power supply shall be capable of
	withstanding without damage the shock, jars,
	strain, vibration and other conditions incident
	with normal maintenance or handling
Transportation	The power supply shall be capable of
	withstanding any standard means of
	transportation without damage, assuming that
	suitable packaging procedures are applied

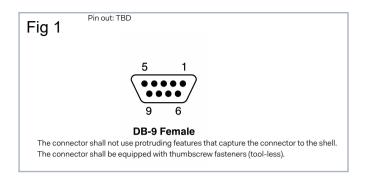
Art Code	Temp Limits	Certifications	Mains Cable
PBUS10412	-40°C to +60°C	UL62368-1	US
PBUS10412-01	-40°C to +50°C	UL62368-1	Australia

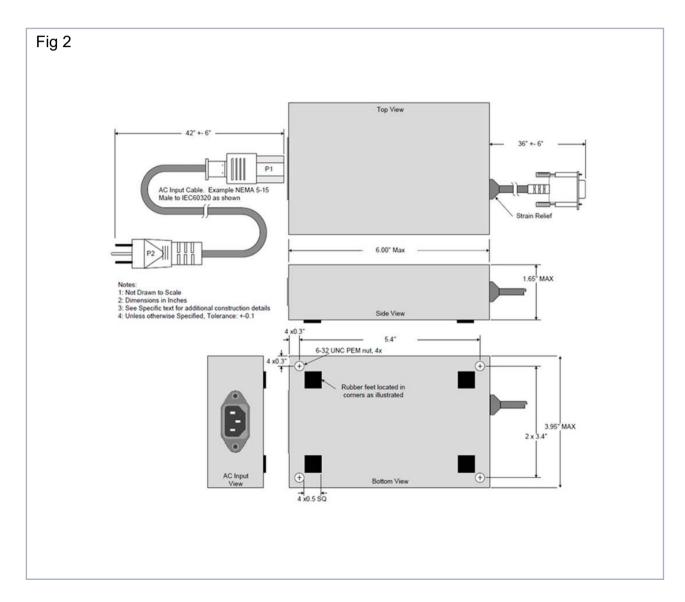


41 x 101 x 153mm / 1.65"x3.96"x6.0"
max. 1.5kg (3lbs) including cables
IEC 60320-C16 power entry
1. 9 pin female D Sub
2. Cinch
3. 38999 Amphenol MS3475L10-6S
4. Power D Sub
Connectors pin out TBD
3 feet ±6 inches
The power supply shall meet
UL listing UL62368-1
>100000h @ 25°C, ground benign
>15 years at 25°C

Standards	
Safety	Certified against UL 62368-1
EMI	Fulfills below listed requirements. Limits for
	Army ground shall apply except for where the
	Fixed Wing External/Helicopter limit per figure
	RE102-3 per page 104 of MIL-STD-416F
	dated December 2007 shall apply

Requirement	Description	
CE102	Conducted Emissions on Power Line, 10 kHz to 10 MHz	
RE102	Radiated Emissions, Electric Field, 10 kHz to 18 GHz	
	(Limit for Fixed Wing External/Helicopter)	
CS101	Conducted Susceptibility, Power Leads 120Hz to 150 kHz	
CS114	Conducted Susceptibility, Bulk Cable Injection 10 kHz to 200 MHz	
CS115	Conducted Susceptibility, Bulk Cable Injection, Impulse Exitation	
CS116	Conducted Susceptibility, Damped Sinusoidal Transients	
RS103	Radiated Susceptibility, Electric Field, 2 MHz to 18 GHz, 50 V/m	





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