P R R X

POWERBOX Defense Line
PBUS0040
48W
AC/DC Single Output Switch Mode Adaptor



Features

Meets MIL-STD-461-F
Rugged design, partly potted
Internal over temperature protection auto recovery
Desktop or shelf mount
Operating temperature +60°C

Input

rating.
:1

Output

Output	
DC output	12VDC.
Voltage tolerance	6% max.
Ripple and noise	150mV p-p max.
Power	48W min at -40°C to +60°C.
Minimum load	0A.
Hold up time	8ms min.
Overvoltage protection	At 135% min.
Over current	Short circuit and over current protection
	(auto-resetting).
Over temp. protection	Yes, limits output power, auto-resetting.
Efficiency	81% typ.

Environmental

Operating temperature	See table.
Storage temperature	-40°C to +71°C.
Humidity	Operating: Up to 80% 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
PBUS0040	-40°C to +60°C	N/A	US
PBUS0040-B	-40°C to +50°C	UL60950	US
PBUS0040-C	-40°C to +50°C	UL60950	Australia

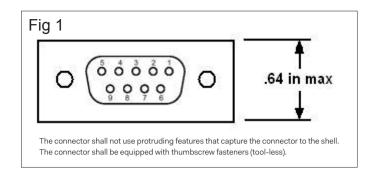
General

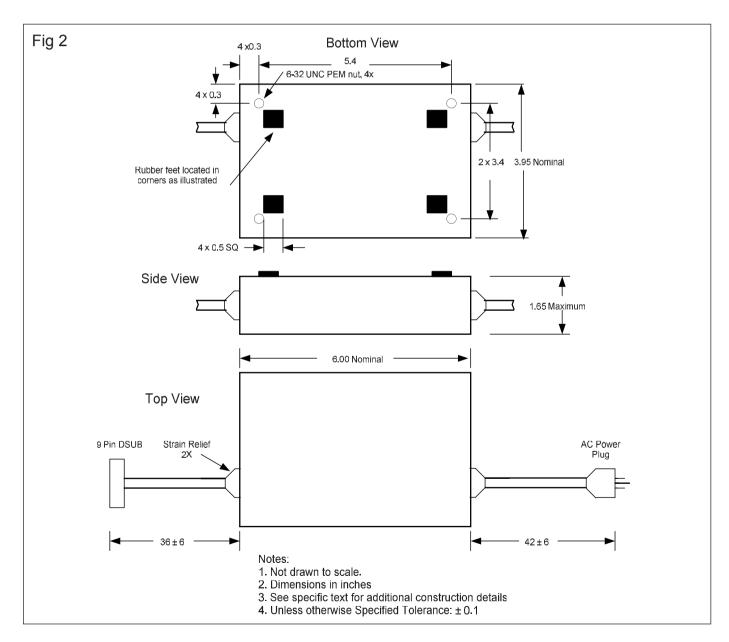
Dimensions (H x W x L)	41 x 101 x 153mm.
Weight	510g.
Input cable	Fixed, three pin.
Output connector	9 pin female D subminiature connector with
	a minimum of 30 micro-inches gold plating.
	Max width of 0.64 inches, refer to Figure 1.
Output cable length	3 feet ±6 inches.
Design and construction	The power supply shall meet UL listing
UL60950.	
MTBF	>50 years power on.
Lifetime prediction	>15 years at 25°C.
Marking	Pin 1 and output cable shield is connected to
	ground.
	Pins 2, 3, 4, 5: +12VDC.
	Pins 6, 7, 8, 9: +12VDC Return.

Standards

Safety	Designed to meet/certified against UL 60950.
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





www.prbx.com 2019.01.15