

# P R B X

POWERBOX Defense Line  
PBUS0015  
36W  
AC/DC Single Output Switch Mode Adaptor

## Features

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

## Input

Voltage range 100-240VAC nominal.  
Rated voltage 90-100VAC with some power derating.  
Frequency 47-63Hz.

## Output

DC output 12VDC.  
Voltage tolerance 6% max.  
Ripple and noise 150mV p-p max.  
Power 36W 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 0-15,000 ft operating, 0-40,000 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.



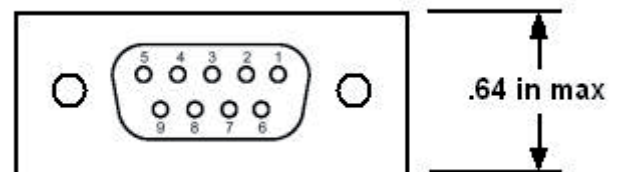
## General

Dimensions (H x W x L) 36 x 70 x 140mm.  
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 Pins 1, 2, 3, 6, 7 No connect  
Pins 4, 5 12VDC  
Pins 8, 9 +12VDC Return.

## Standards

FCC Class B, CISPR 22, MIL-461E. PBUS0015 designed to meet EN/UL60950, PBUS0015-B certified UL 60950.

Fig 1



The connector shall not use protruding features that capture the connector to the shell. The connector shall be equipped with thumbscrew fasteners (tool-less).