

P R B X

POWERBOX Defense Line
PBUS10400
60W
AC/DC Single Output Switch Mode Adaptor

Features

Meets MIL-STD-461F
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
Frequency 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 60W
Minimum load 0A
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
PBUS10400	-40°C to +60°C	UL62368-1	US
PBUS10400-01	-40°C to +50°C	UL62368-1	Australia



General

Dimensions (H x W x L) 41 x 101 x 153mm / 1.65"x3.96"x6.0"
Weight max. 1.5kg (3lbs) including cables
Input cable IEC 60320-C16 power entry
Output connector options 1. 9 pin female D Sub
2. Cinch
3. 38999 Amphenol MS3475L10-6S
4. Power D Sub
Connectors pin out TBD

Output cable length 3 feet ±6 inches

Design and construction The power supply shall meet
UL listing UL62368-1

MTBF >100000h @ 25°C, ground benign

Lifetime prediction >15 years at 25°C

Standards

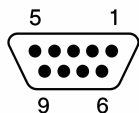
Safety Certified against UL 62368-1
EMI Fulfills below listed requirements. Limits for Army ground shall apply except for where the Fixed Wing External/Helicopter limit per figure RE102-3 per page 104 of MIL-STD-416F dated December 2007 shall apply

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 Excitation
CS116	Conducted Susceptibility, Damped Sinusoidal Transients
RS103	Radiated Susceptibility, Electric Field, 2 MHz to 18 GHz, 50 V/m

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Fig 1

Pin out: TBD



DB-9 Female

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

Fig 2

