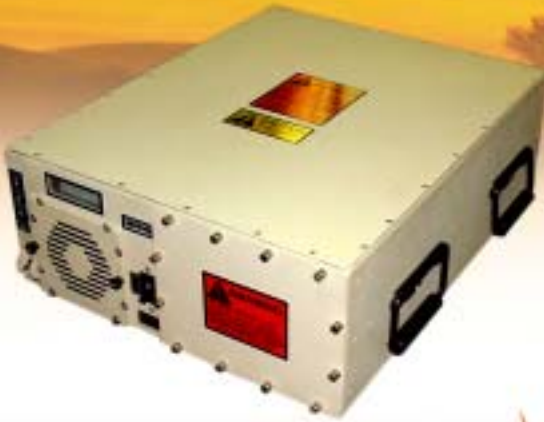


# LAND DEFENCE

## Dual Input/Output NBPS GM-D/NBPS 1.25



The Dual Input/Output No Break Power Supply (NBPS) is a true on line uninterruptible power supply (UPS) delivering clean conditioned power for ground mobile applications.

The dual input/dual output NBPS is designed to meet a variety of military applications and supplies 250 watts of conditioned 24V DC output power and 1 kW of conditioned AC output power. The internal battery tray offers 10 minutes of back up time. Additional back up time is available.

The NBPS is designed to survive harsh operating environments and can be used for portable or hard-mounted applications. Its robust enclosure is drip proof protected and designed to survive NBC chemical wash down requirements. Designed for global deployment, it will operate from an AC power source of 100-250V at 47-63Hz or a DC power source ranging from 18-31V. This wide input voltage and frequency range allows the Power Converter to operate from a generator in the field, 24VDC batteries or from an AC power source of international power standard.

The outputs of the NPBS provide high quality power with a pure sinewave AC output suitable for powering nonlinear loads with a high crest factor requirement and a low noise DC output suitable for powering critical electronic loads.

The NBPS uses active DSP based power factor correction such that when powered from the AC source, the input current drawn is sinusoidal with low harmonic distortion and near-unity power factor.

The NBPS also functions as a power conditioner, blocking surges, spikes and transients from the input sources while maintaining reliable and stable outputs to sensitive equipment.

### FEATURES

- Power isolation switches
- Circular mil connectors
- Integral carrying handles
- Integral spike suppression
- Electronic short circuit output protection
- Low maintenance requirements
- Hot swappable battery tray
- Input power factor correction
- Sealed for NBC washdown
- Operable in NBC contaminated area
- Operable with Level IV MOPP gear

### SPECIFICATIONS

#### INPUT

AC INPUT VOLTAGE	100-250 VAC nominal, 1 phase
FREQUENCY	47-63 Hz nominal
DC INPUT VOLTAGE	18-31 VDC
AC EFFICIENCY	>80% at rated load
DC EFFICIENCY	>80% at rated load

#### OUTPUT

AC OUTPUT VOLTAGE	115 VAC single phase, 60 Hz
AC POWER RATING	1 kW (1250 VA)
DC OUTPUT VOLTAGE	24 VDC
DC POWER RATING	250 watts

#### ENVIRONMENTAL

##### OPERATING TEMPERATURE

WITHOUT BATTERY	-28°C to +50°C/ -18°F to +122°F
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WITH BATTERY	+10°C to +50°C/ +50°F to +122°F
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EMI/EMC	MIL-STD-461E, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103, RS105
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VIBRATION	MIL-STD-810F
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SHOCK RESISTANCE	MIL-STD-810F
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#### PHYSICAL

##### POWER UNIT DIMENSIONS

(LxWxH inches)	22.75 X 18.33 X 6.97
(LxWxH mms)	578 x 466 x 177

POWER UNIT WEIGHT (lbs. max)	110 lbs.
(inclusive of batteries) (kgs. max)	50 kgs

*Pivotal Power has been delivering innovative power conversion solutions for over 20 years. We are a leader in the design, development and manufacture of defence qualified electronic power conversion equipment in the 100W to 60kW power range ideally suited for distributed power applications.*

*Our expertise is in supplying systems to convert, regulate, monitor and distribute power for mission critical systems. This, coupled with our ability to ensure our equipment exceeds the requirements onboard air, land and sea-based defence vehicles, has allowed us to expand into related industrial and alternative energy applications.*

*Our internal manufacturing operation allows us to develop, fabricate, assemble and fully test on-site.*



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