

# Gamatronic UPS For Off-Shore Applications

**MasTec Ltd and Alpha Power systems** proudly announces the release of a new UPS product especially designed for naval applications.

The Gamatronic  $\mu$ PS-SP 10 KVA 3/3 Naval UPS is built to withstand high humidity and high-salinity conditions typical to shipboard environment.

The mechanical construction and the internal components' fixtures are designed to endure shocks and vibrations.

The unit can be securely fixed on deck; shock absorbers are available as an option. EMC emission and immunity conform to IEN standards and MIL-specs.

The unit complies with the following standards:

Shocks and vibrations: MIL-STD-167B and MIL-STD-901c

EMC : EN50091-2 / MIL-STD 461C/462

Safety: EN50091-1

Design : ENV50091-3



*UPS Cabinet*



*Battery Cabinet*

**INPUT**

3 Phase X	3X200VAC/ 3X208VAC/ 2X220VAC
Voltage range	+20%-15%
Frequency	50Hz/60Hz $\pm$ 5% (according to customer's requirement)
Power walk-in	12 sec.
Power factor	>0.80

**OUTPUT**

Voltage	3X200VAC, 3X208VAC, 2X220VAC
Frequency	50Hz/60Hz (according to customer's requirement)
Power	10kVA / 8kW
Efficiency AC – AC	91%
Dissipation at full load (1W = 3.4 BTU)	791W
Inverter efficiency at 100% load	95%
Voltage regulation	$\pm$ 1%
Frequency tracking range	$\pm$ 1, $\pm$ 2, $\pm$ 3Hz (selectable)
Slew rate	1 Hz/sec.
Overload	125%-10 min., 150%-30 sec.
Load P.F.	0.8
Waveform	Sinusoidal
Crest factor	3:1
Total harmonic distortion	Less than 2% (at linear load)
Protection	Overload and short circuit
Dynamic response to 100% load change	2%
Transition time:to and from line	Less than 0.5 msec.
Phase deviation	Balanced load $\pm$ 1o
Rejection ratio	More than 100 dB

**BACKUP OPERATION**

Backup time	13 min. @ 8 kW Load
DC voltage	216V +/- 1%
Batteries	16X 12V/26Ah Sealed Lead-Acid
Battery recharge time	4-8 hours
Expected battery life	10-12 years

**COMMUNICATION OPTIONS**

RS232 / RS422	Shutdown, monitor
Remote alarm, indication panel	Optional
Speech dialer	Optional

**LCD DATA**

Input	Voltage (current - optional)
Output & Inverter	Voltage, Current, Frequency
Bypass	Voltage & frequency
Batteries	Voltage
Temperature	Heat sink
Log (events memory)	Last 200 events

**ENVIRONMENT & OTHER**

Ambient temperature:

Operating Storage

Relative humidity

Altitude

UPS Standard General &amp;

Safety EMC Design

461C/462ENV50091-3

MTBF

static switch

Audible noise @ 1.5m

-10 to 40 o C-20 to 60 o C

95% max., non-condensing

1500m w/o derating

EN50091-1EN50091-2 / MIL-STD

100,000 hours / 250,000 hours with

&lt; 55 dB

**DIMENSIONS**

Height (cm)

Width (cm)

Depth (cm)

Weight (kg)

**UPS Section Battery Section Total**

98 98 98

62 60 122

48 48 48

145 205 350