



**Power Innovations**  
INTERNATIONAL, INC.

# AMPS™

Auto-Regulated Motion Power System



# AMPS™ Features and Specifications

The AMPS™ generates 5,000 Watts of AC power from a boat, plane, or any other vehicle. Unlike traditional generators that require a constant RPM, AMPS delivers constant, perfect power over a wide range of rotational input. When AMPS is implemented for combustion engines, throttle speed is no longer a concern. Vehicles, boats, etc. can generate full load requirements whether the engine is at idle or full throttle or anywhere in between anytime the engine is running.

## Uninterruptible Power Quality™ (UPQ™)

*A New Standard For A New Generation*

Uninterruptible Power Quality™ (UPQ™) is an unprecedented new standard of power management and control that addresses critical modern power issues. UPQ technology incorporates additional features and functions not found in conventional systems and focuses on the critical issues of power quality and management, while still providing optional backup when the engine is shut off.

AMPS with its UPQ features provides power under conditions other power generation equipment do not offer. The ability to operate while traveling provides stable power for communication services, satellite and IT capabilities, and emergency medical equipment operations.

AMPS also provides power that can be utilized to power intersection lighting during power outages, which provides safer traffic operation and better utilization of personnel. AMPS can also power up equipment in remote areas without the need of separate fuel systems, heavy trailers or taking up valuable space in vehicles. AMPS is applicable to nearly every emergency service, utility vehicle, and military or defense operation.



**AMPS Military  
& Marine**

General	Rating
Output power capacity	5,000 Watts / 10,000 Watts
Output current (peak amp) 120V	42 amps / 84 amps

Power Conditioning Topology	
Nominal output voltage	120 Volts / 230 Volts / 120 Volts
Output frequency range (auto selected)	60 Hz / 50 Hz / 400 Hz

Output	
Voltage Regulation & Frequency	
Protection	Breaker
Output voltage regulation	+ / - 2%
Wave form	Pure sine wave
Distortion	< 1%
Isolation	
Common-mode noise rejection	Yes
Normal-mode noise rejection	Yes
High Frequency On-Line Inverter	
Overload capacity	>110%
Crest factor	3:1
Transfer time	Zero
Efficiency	90% min

Physical	
Weight (military/marine)	71.9 lbs 32.61 kg
W x D x H (military/marine)	10 x 6.85 x 28.85 in 25.4 x 17.4 x 73.3 cm
Weight (mobile)	71.9 lbs 32.61 kg
W x D x H (mobile)	19 x 15 x 6.9 in 48.3 x 44.2 x 17.5 cm

Environment	
Temperature	-22° - 140° F -30° - 60° C
Storage temperature	-40° - 158° F -40° - 70° C
Humidity	10% - 95% non condensing
Shock	10 g for 11 ms, 1/2 Sine

Display / Controls	
Remote option	Yes
Load	10 Segment LED
Voltage	10 Segment LED
Temperature	Yes
Enable	Yes

Input	
Input frequency	175 - 1k Hz
Protection	3Ø breaker
Input voltage	Alternator regulated
Alternator speed	1,750 - 10,000 RPM



**AMPS Mobile**