

ATLAS MARINE SYSTEMS

AP II Series AutoPHASE™ POWER SYSTEM

Atlas Marine Systems is the world leader in the design of marine electrical power systems. Atlas provides electrical engineering services to define the vessel electrical distribution system and the appropriate application of its TecPOWER® series switchboards, load management and power management systems. Additionally, the Atlas ShorPOWER® product line, using either a single or dual transformer isolation approach, provides the widest selection of onboard frequency converters available to the yachting community.



APPLICATION:

The *AutoPHASE™ AP II* series is designed to provide electrical isolation and automatically parallel two shore cords of equal ampere capacity. It is available in two configurations. The *AP II-100* provides dual shore cord connection up to 50 amp capacity each. Likewise, the *AP II-200* provides dual shore cord connection up to 100 amp capacity each. The full output power of the *AutoPHASE™* is shared between the vessel's bus A and bus B as needed, to prevent tripping of the dock's circuit breakers. The *AutoPHASE™* automatically balances the yacht's total current demand, regardless of individual bus demand. Example: normally a vessel with dual shore cords would have each cord provide power to a separate bus onboard. Therefore, each bus would be limited to the dock's 50 amp circuit breaker size. With *AutoPHASE™*, if bus A onboard needs 60, 70, or 80 amps during peak loads, no problem! A total of 100 amps is available to be distributed to bus A and B as needed. *AutoPHASE™* will operate from any standard input source ranging from 200 to 240 volts, single-phase, 50 or 60 Hz. Both outlets must be connected to the same marina distribution transformer for proper operation. Usually, if two outlets share the same pedestal, they are wired to the same transformer. For outlets wired to a three-phase distribution system, the outlets must each be on the same phase (phase A-B, phase B-C, phase C-A) for proper operation.

STANDARD FEATURES:

- Dual shore cord operation for increased operating capacity
- GFCI compatible
- Built-in electrical isolation
- Single cabinet configuration
- Compact and lightweight design
- Microprocessor controlled
- Analog display and control panel
- Input cord compatibility indicator
- Input emergency power off switch (EPO)
- Remote monitoring interface
- Floor mounted
- No periodic calibration required
- Small footprint and installed volume
- Low acquisition and installation cost
- Stud type power connections

OPTIONS AVAILABLE:

- User selected output voltage
- 100 amp or 200 amp capacity
- Multi-cabinet (modular) design for installation in confined spaces and improved weight distribution
- Touch-screen display and control panel
- Splash-proof meter and control panel kit

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ATLAS MARINE SYSTEMS - AutoPHASE™

GENERAL SPECIFICATIONS

INPUT:

Voltage Range:	200 to 240 volts
Phase:	Single-phase only
Phase Selection:	Same for both shore cords
Frequency:	40 to 70 Hz
Power Factor:	≥ 0.98

ENVIRONMENTAL:

Temperature:	-25°C to +55°C
Humidity:	0% to 95%, non-condensing

OUTPUT:

Ampere Rating/ cord (specify):	50 or 100 amp
Voltage (specify):	
▪Single-phase, 2-wire:	200, 208, 220, 230, 240 volts
▪Single-phase, 3-wire:	100/200, 110/220, 115/230, 120/240 volts
Voltage Regulation:	+4%, -10%
Frequency:	Same as input
Efficiency:	98% typical at full capacity

MECHANICAL:

Mechanical specifications vary depending on configuration selected. Contact Atlas Marine Systems to obtain more information.