INTERMARINE ELECTRONICS S.A.

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IME A1-A4 Uninterrupted AC/DC & DC/DC power Supply systems Integrated with Battery charger, Automatic Change Over device and Battery Alarm



"To keep the battery fully charged, high-current special diodes are installed on the battery and DC lines to prevent backflow, reflections, reverse polarity, and reverse charging."



IME A1~A4 Backup Power Supply Solutions

Our IME A1-A4 AC/DC and DC/DC Power Supplies offer a comprehensive solution for backup power on ships, integrating a battery charger, automatic changeover device, and both audio and visual alarms. These systems are fully customizable to meet the specific requirements of vessels, combining all necessary features into a compact, reliable device. Is Suitable for all types of lead-acid batteries.

Key Features:

- Fully protected against overvoltage, overcurrent, overtemperature, and short circuits.
- Resettable high-current fused switches on both AC and battery lines for enhanced safety.
- Changeover device withstands up to 80A current, offering redundancy with one SSR and one mechanical relay.
- Operating Temperature: -15°C to +65°C.
- Certifications: CE, ISO 9001.

A1 Series (GMDSS Area 1)

A1-A (AC/DC Power Supply)

Is Consisting of AC/DC Power Supplies, integrated with battery charger and an automatic changeover device with audio and visual alarm. Designed for GMDSS Area 1, AIS, and CITADEL backup power in compliance with IMO MSC.1/Circular.1339 and NATO 72-hour standards.

Technical Specifications:

- **AC Input:** 110/230V AC, 50/60Hz, 600W
- **DC Output:** 12V/24V DC, 41A/21A (customizable based on vessel requirements)
- **Charging Capacity:** 10A (suitable for 100Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications
- **Operating Temperature:** -15°C to +65°C
- **Certifications:** CE, ISO 9001

A1-B (DC/DC Power Supply)

Is Consisting of AC/DC Power Supplies, integrated with battery charger and an automatic changeover device with audio and visual alarm. Ideal for GMDSS Area 1, CITANDEL backup power complies with IMO MSC.1/Circular.1339 and NATO 72-hour standards.

Technical Specifications:

- **DC Input:** 9-36V DC, 20A
- **DC Output:** 12V/24V DC, 10A (customizable based on vessel requirements)
- **Charging Capacity:** 10A (suitable for 100Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications

A1-AIS (AIS Backup Power Supply)

Designed for AIS and other equipment requiring uninterrupted backup power.

Technical Specifications:

- **AC Input:** 110/230V AC, 50/60Hz, 600W
- **DC Output:** 12/24V DC, 21A (customizable based on vessel requirements)
- **Charging Capacity:** 10A (suitable for 100Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications

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A2 (GMDSS Area 2)

Is Consisting of AC/DC Power Supplies, integrated with battery charger and an automatic changeover device with audio and visual alarm, for vessels in GMDSS Area 2,

Technical Specifications:

- **AC Input:** 110/230V AC, 50/60Hz, 600W
- **DC Output:** 12V/24V DC, 41A/21A (customizable based on vessel requirements)
- **Charging Capacity:** 25A (suitable for 250Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications

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A3 (GMDSS Area 3)

Is Consisting of AC/DC Power Supplies, integrated with battery charger and an automatic changeover device with audio and visual alarm, .

Technical Specifications:

- **AC Input:** 110/230V AC, 50/60Hz, 1000W
- **DC Output:** 24V DC, 41A (customizable based on vessel requirements)
- **Charging Capacity:** 30A (suitable for 300Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications

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A4 (GMDSS Area 4)

Is Consisting of AC/DC Power Supplies, integrated with battery charger and an automatic changeover device with audio and visual alarm, for vessels in GMDSS Area 3
Reliable backup power for vessels operating in GMDSS Area 4, with an integrated battery charger and automatic changeover device.

Technical Specifications:

- **AC Input:** 110/230V AC, 50/60Hz, 1200W
- **DC Output:** 24V DC, 50A (customizable based on vessel requirements)
- **Charging Capacity:** 30A (suitable for 300Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications

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B1 DC/DC Battery Charger (Standalone)

For vessels that require a dedicated battery charger with an automatic switching device and a battery alarm to ensure continuous operation

Technical Specifications:

- **DC Input:** 9-36VDC
- **Charging Capacity:** 12V/10A, 24V/10A (100Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications

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B2 Battery Charger (Standalone)

For vessels that require a dedicated battery charger with an automatic switching device and a battery alarm to ensure continuous operation**.**

Technical Specifications:

- **AC Input:** 110/230V AC, 50/60Hz
- **Charging Capacity:** 12V/67A (600Ah battery) or 24V/30A (300Ah lead-acid batteries)
- **Changeover Capacity & Time:** 80A, <20 milliseconds
- **Alarm System:** Visual (LED) + Audio (Buzzer) for status and fault notifications

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