

DC POWER SUPPLY UNIT

MD81

- A reliable power supply for marine navigation equipment
- Provides 24V DC power from a vessel's main AC supply
- Recommended for the MARINE DATA MD76/8 Heading Monitor
- Legacy 'S' type DC voltages are supported
- Automatically switches to 24V DC backup if the main AC power supply fails
- Alarm lamp activates if main power supply fails
- Remote trigger for an external alarm sounder
- Suitable for workboats, tugs, fishing vessels and pleasure craft
- Meets the IMO recommendations
- Rugged, marinised aluminium alloy housing

The MD81 range of DC Power Supply Units from Marine Data. Factory configured to your exact requirements.



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SPECIFICATIONS (with options)

Physical

- Weight: Approx. 4.5kg (depending on power requirements)
- Dimensions: 185mm overall width; 246mm overall length; 132mm overall height.
- Mounting: Bulkhead mounted
- Connections: Internal screw terminal connectors for:
 - Main AC power input
 - Backup (standby) DC power input
 - DC power output
 - Trigger circuit (voltage free) for external alarm sounder
- External earth bonding point
- Construction: Aluminium alloy enclosure
- Finish: Stove enamel, black-grey (RAL7021)

Electrical

- Type: Toroidal, wire-wound, multi-tap transformer
- Input power: 24V DC backup power; AC main power (with options):
 - (1) 110V AC 50/60Hz vessel main power input
 - (2) 230V AC 50/60Hz vessel main power input
- Supplied output power: 24V 4A DC power out (with options):
 - (1) 35V DC power output for legacy S-type devices
 - (2) 50V DC power output for legacy S-type devices
 - (3) 70V DC power output for legacy S-type devices
- Trigger circuit for external alarm sounder: Closed loop (voltage free) trigger circuit rated at 3A, 24V; Normally Open (NO) and Normally Closed (NC) configurations are supported

Operational

- Display: Illuminated lamp when main AC power supply fails. Indicator lamps for main AC power input and backup (standby) DC power input

Environmental

- Water resistance rating: IP42
- Operating temperature: -10°C to +70°C
- RoHS compliant

Additional Information

- The 24V DC output from the MD81 automatically switches to the vessel backup (standby) 24V DC supply if the vessel's main AC power supply fails
- Optional legacy S-type DC power outputs are not maintained during vessel power failure
- PG11 cable glands suit cable diameters of 5-10mm
- The legacy S-type power output options are factory configurable to individual requirements



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