

PROJECT SPECIFIC PRODUCT RANGE

POWER & DATA DISTRIBUTION / POWER SUPPLIES

MD81/24 POWER SUPPLY UNIT

SKU: F081001

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FEATURES

- **24 V DC Power from Vessel's Main AC Supply**
- **110 V / 220 V ac 50 / 60 Hz Supply**
- **Automatically Switches to 24 V dc Backup Supply if Main AC Supply Fails**
- **Alarm Indication if Main AC Supply Fails**
- **Remote Trigger for an External Alarm**
- **Rugged, Marinised Aluminium Enclosure**
- **High surge current capability**
- **All inputs and outputs are fuse protected**
- **The main and backup (standby) power supply inputs can be isolated**

OVERVIEW

The MD81/24 is a power supply unit which operates from a ship's 110 V / 220 V ac 50 / 60 Hz single phase supply and provides a 24 V dc output. The MD81/24 can also be factory configured to provide 'S' Type 35 V, 50 V or 70 V dc outputs for legacy equipment (option).

The MD81/24 has an automatic changeover facility to switch to the ship's backup (standby) 24 V dc supply in the event of a main power supply failure. The MD81/24 also incorporates a power failure alarm circuit which meets IMO recommendations. Power failure is indicated visually on the front of the enclosure and a relay contact is provided to activate an external alarm system if required.

Constructed in a robust die-cast aluminium enclosure and finished in RAL9005 Jet Black fine texture paint, the MD81/24 is designed to complement existing marine navigation equipment. The MD81/24 is supplied with fixing centres for bulkhead mounting.

The MD81/24 Power Supply from Marine Data: flexible in application, easy to install and simple to maintain.

APPLICATIONS

- Suitable for supplying 24 V dc to ships navigation equipment where security of supply requires the automatic changeover to a backup dc supply in the event of a main ac power failure

RELATED PRODUCTS

MD04UPS - Uninterruptible Power Supply

MD94DDU - Data Distribution Unit

All Marine Data Navigation Equipment requiring a safeguarded 24 V dc supply

This product is an example of a baseline specification which we are not currently stocking as a standard product. Please contact us with your project-specific requirements, and we can discuss opportunities to provide a bespoke solution.

SPECIFICATIONS

PHYSICAL	
Weight:	2.8 kg
Dimensions:	H 222 mm; W 180 mm; D 133 mm
Mounting:	Bulkhead mounted
Connections:	4x M20 cable glands; M4 earth stud; 2x internal barrier strips
Construction:	Die cast aluminium enclosure
Finish:	RAL9005 Jet Black, fine texture

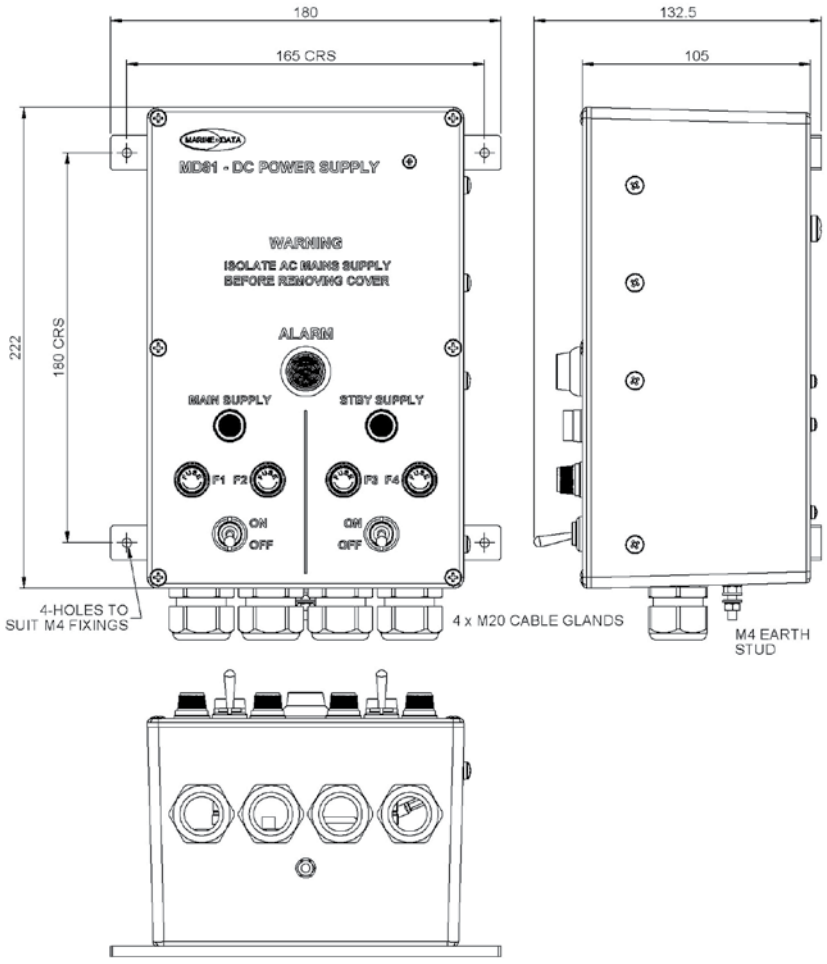
ELECTRICAL	
Type:	Toroidal transformer
Power Input:	24 V dc Backup (Standby) supply; 220 V or 110 V ac; 50 / 60 Hz main power
Power Output:	24 V dc; 4 A Factory options: 35 V, 50 V, 70 V dc
External Alarm:	Volt Free Contacts

OPERATIONAL	
MTBF:	>30,000 hours

ENVIRONMENTAL	
IP rating:	IP42
Operating temp:	-15°C to +55°C
RoHS:	Compliant
Compass:	Safe Distance: 200 cm

APPROVALS	
Complies with:	IMO Recommendations

ADDITIONAL
The trigger circuit for the external alarm sounder is closed loop (volt free) rated at 3 A; 24 V dc
Normally open (NO) and normally closed (NC) configurations are supported



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