

GMDSS power unit

DC on-board network

FCC range

GMDSS Certificate type approval n° 10528/A1/BV



Field of application

Field of application title 3

Navigation in French territorial waters

Division 219 Articles 219-20 to 219-25

Presentation

Unless the regulations made pursuant to Article 219 provide otherwise, the FCC-GMDSS-30 power unit is used for small ships depending on the field of application title 3.

It has been designed for ships having a DC primary source on board network (rectified alternator or generator).

The calibre of the power unit in 24VDC is 20A in permanent current and 30A in intermittent current.



Advantages of the FCC unit

- Model certified in conformity to division 219
- Compact box including the connection, protection, display, commutation and alarm functions
- Cost similar to a manual system, which functions do not ensure permanently the availability of the radio station
- 6 protected outputs (examples) : 1 transmitter MF, 1 VHF ASN, 1 VHF ASN (duplication), 1 Immarsat C, 1 GPS, 1 emergency light
- Operating temperature : - 10 to 50°C
- Storage temperature : -20 to 70°C
- Humidity : from 0 to 95% without condensation

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Functions provided

- Automatic switchover, without disconnection of the 2 power supply sources
- Non-return diode with low voltage drop. Protection against short-circuits
- Source priority : 1st main source and emergency source
2nd stand-by source
- Display of the electrical values of the state and alarm messages in French and in English
- Protection by fuses of the 2 inputs and the 6 outputs
- Intermittent operation of the stand-by battery for longer life duration
- Detection of stand-by battery
- Operation in 24VDC or 12VDC by commutation
- Manual hyphenation of the quay utilizations by commuter



The FCC-GMDSS-30 unit cannot replace the model FCC-GMDSS-30-RAE, which calibre is higher and which field of application extends to title 2.

Any association with a battery charger providing the conversion from an AC main source is forbidden.

The FCC-GMDSS-30 unit must not be installed on ships sailing in the international waters.

Standard range - DC main source

Description	FCC.GMDSS.30 Current commutable 20A in permanent - 30A in intermittent
Item code	SEEL008462
DC main on-board source 24VDC	Generator or rectified alternator. When the generator is connected to the service battery through a diode distributor, the main source can be separated from the emergency source
Emergency source 24VDC	In most cases, the service battery, which is used as an emergency source is directly linked to the main source
Stand-by source 24VDC (radio battery)	Radio battery located on top of the ship main deck
Box Dimensions (mm)	Height : 160 mm - Width : 145 mm - Depth : 80 mm
Alpha numeric display	Included. Voltmeter, ammeter, State and alarm messages available in 2 languages

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