

## MF06/MF12/MF14

### Wide range of solid-state flashers

MSM has a wide range of solid-state flashers available, designed for marine aids-to-navigation applications. They stand out for their simplicity, flexibility and electrical protection.

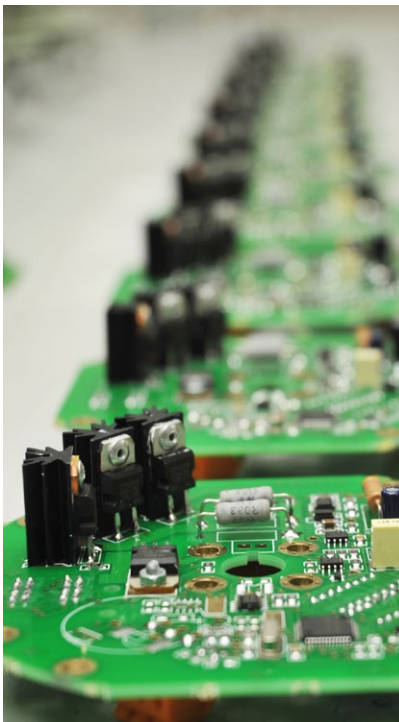
### 256 preprogrammed rhythms

These flashes include electronic circuits of the latest technology, allowing 256 preprogrammed rhythms, as well as an infinite rhythm selection.

### LED current output stabilized

In the case of MF06 and MF12 flashers, LED current output is stabilized to protect their life in service.

In the MF14 flasher, PWM modulation applies a stable and regulated voltage, in order to keep the lamp filament colour temperature.



## FEATURES

- *Microprocessor-based circuit with Flash technology.*
- *Infinite rhythm programming.*
- *Time accuracy of  $\pm 5\%$ .*
- *Sunlight circuit sensor.*
- *High resistance to shocks and vibrations.*
- *Terminals protected against corrosion by gold plating and silicon coating (MF06 and MF12).*
- *Advanced solar charge regulation function in 3 phases.*
- *Measurement of analogical parameters and alarms for remote monitoring (MF12).*
- *Configuration software for PC under Windows environment.*
- *Reverse-polarity and short-circuit protections.*
- *Terminal screws from stainless steel.*

# MF06/MF12/MF14

## Specifications

	MF06	MF12	MF14
Power input	4.5-18 V c.c.	4.5-36 V c.c.	4.3-35 V c.c.
LED/Lamp maximum current	1 A	5 A	10 A
Lamp maximum power	-	-	250 W (24 V system)
Output	LEDs regulated	LEDs	Lamps or LEDs
Output voltage	6-12 V	De 5 a 36 V	6.2 - 10.3 - 12 - 24V $\pm$ 1% PWM
Idle current	< 2 mA	< 3 mA	< 5 mA
Rhythms selectable by microswitches	-	256 positions	256 positions
Rhythm programming by user (infinite)	6 positions Up to 25 cycles ON / OFF	6 positions Up to 25 cycles ON / OFF	6 positions Up to 25 cycles ON / OFF
Time accuracy	$\pm$ 0.05%	$\pm$ 0.05%	$\pm$ 0.05%
Solar module regulation	10 W (maximum power)	75 W (maximum power)	-
Vibration resistance	MIL-STD-202G, method 204D (5G)	MIL-STD-202G, method 204D (5G)	10 G
Shock resistance	MIL-STD-202G, method 213B	MIL-STD-202G, method 213B	40 G
Synchronisation	GPS (optional)	Cable or GPS (optional)	Cable or GPS (optional)
Communication serial	RS-232	RS-232 (2 nos.) (RS-482 and RS-422 optional)	RS-232
Remote monitoring	-	MF Series	MTU Series
ATEX	-	-	Zone 1 / Zone 2 (optional)
Temperature range	From -40° to 85°C	From -40° to 85°C	From -40° to 85°C
Weight	0.1 kg	0.2 kg	0.7 kg
Options	- IR Programmer.	- IR Programmer. - Bluetooth programming. - RS-485 and RS-422. - GPS Synchroniser. - GSM, Radio, Satellite or AIS remote monitoring	- GPS Synchroniser.

**!** Specifications subject to change without previous notice.

