

## Marine Battery Charger Switching Mode



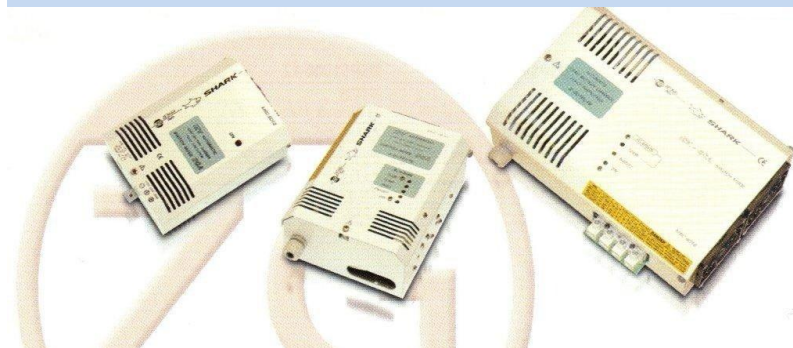
Thanks to new switching technology, SHARK series battery charges are extremely light and compact and, as they are constructed using high quality components of the latest generation, they are also very reliable. The three-stage charging system offers the advantage of having batteries that remain efficient over time. Furthermore, SHARK battery chargers are equipped with numerous protective circuits and alarms, thus making them completely safe.

- It simultaneously handles three batteries, supplying each one with the required current.
- Fully automatic.
- Three-stage charging system (boost and floating) for a 100% charge and long battery life.
- It can be used as an independent power supply without the need for backup batteries.
- Switching mode technology allows minimum weight and dimensions.
- It also works with very low AC mains voltages (180 V).
- Dual voltage power supply 115/230 V.
- Two-position switch (lead/hermetic gel) to optimize charging.
- Protection against reverse polarity, short circuit, over temperature.
- Fuses input-output.
- Cooling fans.
- Battery temperature sensor (model SC010, optional).
- Control panel on the front indicating alarms: ON-OFF led, BOOST led, BAT DEF led, TEMP DEF led, FUSE DEF led.
- Remote control panel (mod. PR005 – PR006 – PR007, optional).



Choose a battery charger Zetagi SHARK is the right choice.

## MARINE BATTERY CHARGER SWITCHING MODE 12V



MODEL		MSC2012	MSC2612	MSC4012
Max. Output Current	A	20	26	40
Charge Voltage Boost	Vdc	14.1 (14.5 gel battery)	14.1 (14.5 gel battery)	14.1 (14.5 gel battery)
Charge Voltage Floating	Vdc	13.4 (13.8 gel battery)	13.4 (13.8 gel battery)	13.4 (13.8 gel battery)
Charging Characteristics		IUoU	IUoU	IUoU
Outputs	No.	2	3	3
Voltage Supply	Vac	80 ÷ 130	80 ÷ 130	80 ÷ 130
	Vac	180 ÷ 250	180 ÷ 250	180 ÷ 250
Dimensions (LxWxH)	mm	150 x 200 x 84	170 x 280 x 88	310 x 230 x 90
Weight	Kg	1.2	1.7	3.5



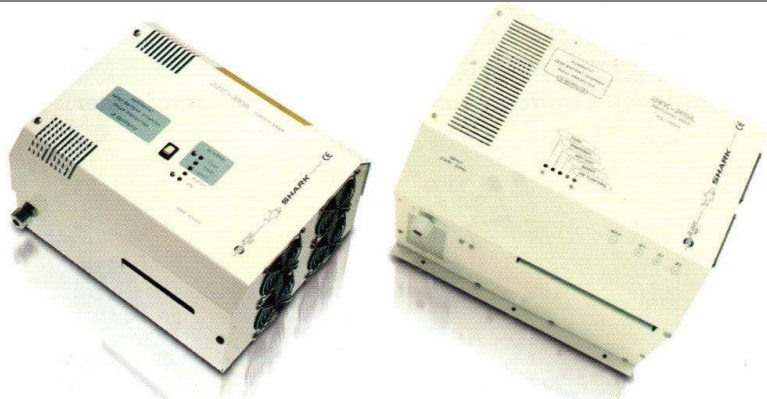
MODEL		MSC6012	MSC8012	MSC12012
Max. Output Current	A	60	80	120
Charge Voltage Boost	Vdc	14.1 (14.5 gel battery)	14.1 (14.5 gel battery)	14.1 (14.5 gel battery)
Charge Voltage Floating	Vdc	13.4 (13.8 gel battery)	13.4 (13.8 gel battery)	13.4 (13.8 gel battery)
Charging Characteristics		IUoU	IUoU	IUoU
Outputs	No.	3	3	3
Voltage Supply	Vac	80 ÷ 130	80 ÷ 130	80 ÷ 130
	Vac	180 ÷ 250	180 ÷ 250	180 ÷ 250 (*)
Dimensions (LxWxH)	mm	340 x 300 x 80	340 x 300 x 80	340 x 300 x 150
Weight	Kg	4	4.2	7

(\*) The selection of supply voltage must be effected in the factory.

## MARINE BATTERY CHARGER SWITCHING MODE 24V

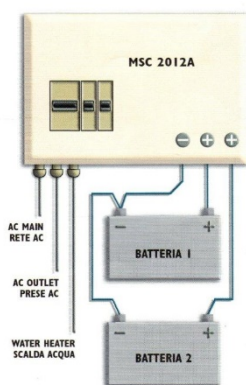


MODEL		MSC3024	MSC5024	MSC8024
Max. Output Current	A	30	50	80
Charge Voltage Boost	Vdc	28.2 (29 gel battery)	28.2 (29 gel battery)	28.2 (29 gel battery)
Charge Voltage Floating	Vdc	26.8 (27.6 gel battery)	26.8 (27.6 gel battery)	26.8 (27.6 gel battery)
Charging Characteristics		IUoU	IUoU	IUoU
Outputs	No.	3	3	3
Voltage Supply	Vac	80 ÷ 130	80 ÷ 130	80 ÷ 130
	Vac	180 ÷ 250	180 ÷ 250	180 ÷ 250 (*)
Dimensions (LxWxH)	mm	310 x 230 x 90	340 x 300 x 80	340 x 300 x 150
Weight	Kg	4	4.25	7
	(*)	The selection of supply voltage must be effected in the factory.		



MODEL		MSC10024	MSC14024
Max. Output Current	A	100	140
Charge Voltage Boost	Vdc	28.2 (29 gel battery)	28.2 (29 gel battery)
Charge Voltage Floating	Vdc	26.8 (27.6 gel battery)	26.8 (27.6 gel battery)
Charging Characteristics		IUoU	IUoU
Outputs	No.	3	3
Voltage Supply	Vac	80 ÷ 130	80 ÷ 130
	Vac	180 ÷ 250 (*)	180 ÷ 250 (*)
Dimensions (LxWxH)	mm	340 x 300 x 150	410 x 340 x 270
Weight	Kg	7	12
	(*)	The selection of supply voltage must be effected in the factory.	

## MARINE BATTERY CHARGERS SWITCHING 12V + DISTRIBUTION PANEL

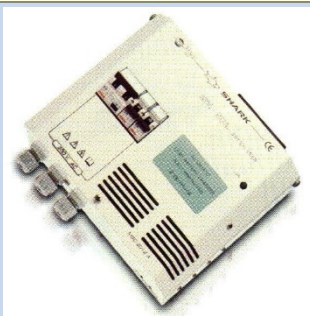


## Save time, space and money

The mod. MSC2012A is particularly suitable for small boats or campers, where there is no electrical system. This product contains in a single small package:


- . an automatic electronic battery charger 20A – 12V – 2 outputs;
- . a complete electrical system consisting of:
  - . a breaker switch 30mA/16 ° with differential;
  - . 2 outputs 230V means, for all the utilities on board, controlled separately by circuit breakers.



		<b>MSC2012A</b>
<b>MODELLO</b>		
Corrente d'uscita Max.	A	20
Tensione di carica Boost	Vcc	14,1 (14,5 batteria gel)
Tensione di mantenimento	Vcc	13,4 (13,8 batteria gel)
Modalità di carica		IUoU
Numero di uscite		2
Alimentazione	Vca	180 ÷ 250
Dimensioni (LxPxH)	mm	230 x 250 x 35
Peso	Kg	2

## ACCESSORIES BATTERY CHARGER MSC series

**REMOTE CONTROL PANEL:** It allows you to control the status of the battery charger. It is equipped with amperometer and a 8 m cable.

MODEL		PR006	PR007
		for MSC3024 MSC5024 MSC4012 MSC6012 MSC8012	for MSC8024 MSC10024 MSC12012
Instrument		analog ammeter	analog ammeter
Flat Cable Leght	m	8	8
Dimensions (LxWxH)	mm	120 x 65 x 30 (depth)	120 x 65 x 30 (depth)

### TEMPERATURE SENSOR mod. SC010

Temperature battery sensor to put on the more stressed battery. It is used to optimize the charging of the battery charger, MSC series, and to avoid damaging the battery

