

Typ

Solar charge regulator

Stand 2008



FOX-220

Product description

The FOX-220 is a solar charge controller for modulated currents up to 20 A, suitable for AGM, gel and lead-acid batteries. Consumers can be connected up to a current consumption of 20 A maximum.

The adaptive total discharge protection monitors and protects the battery against damaging total discharge and alternatively the nightlight function can be used. The optimised charge characteristic curve in combination with the hardware PWM control achieves a distinctly faster and gentler charging of the battery; hazardous gassing or overcharging are safely prevented. The charge regulator recognises automatically whether a 12 V or 24 V battery

system is connected. The active battery cut-out ensures the protection against reverse current and allows for an extremely low voltage drop between module and battery.

The three LEDs give information on the charging state of the batteries and whether a charge current is flowing oder the regulator reduces the charge current (float charge voltage). The FOX-220 can at any time be connected to the Multi Display FOX-MD1 by simple plug-in a cable. This allows the current voltages and flows to be displayed, even graphically. The programming function of the FOX-MD1 enables you to change and save various parameters.

Field of application



- ~ for motor boats and sailing yachts
- ~ for camping und caravans
- ~ for mobile current supply

Technical features

Technical features	Value/Unit
System voltage	12 V / 24 V automatic
Operating voltage	8,5 V ... 35 V
Power required by the unit	12,0 mA
- with FOX-MD1	15,0 mA
Overcharge protection	max. 20 A @ 25° C
Temp. compensation	-20mV/°K @12V, -40mV/°K@24V
Max. terminal voltage	50V (Uoc on module label)
Total discharge protection	max. 20 A @ 25°C
- Switch-on/switch-off delay	1 min
Nightlight function	max. 20 A @ 25°C
- Switch-on/switch-off delay	10 min
Displays	
- Battery status display	LED (multi-colour)
- Charge current display	LED (yellow)
- Output status display	LED (multi-colour)
Terminals	VA screw, max. 16mm ²
Voltage loss	0.0 – 0.27 V (@ 0 - 20 A)
Type of protection	IP 22
Ambient/storage conditions	-25° C ... + 50° C, non-thawing
Weight	300 g

Technical changes reserved

Special features

- Suitable for AGM-, gel- and lead-acid-batteries
- Auto-sensing of system voltage (12/24V)
- Expandable with remote display and programming unit FOX-MD1 (with backlit display)



12/24V
auto sensing



discharge protection



max 20A



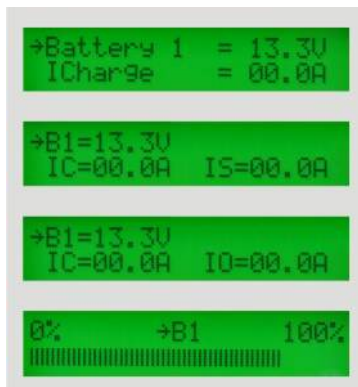
AGM, gel lead-acid



night-light function

Display masks

When the FOX-220 is connected to the FOX-MD1 the following display values are shown:



Dimensioning

