



## Solar charge regulator serie FOX-X60

Comfortable handling, ease of installation and manifold display features are characteristics of the charge regulator serie FOX-X60 with integrated graphical display. Only quality components with automotive admission and extended temperature range are used.

### Product characteristics

- Overcharge protection 20A is equal to solar modules of 340 Watt 12V (680W @ 24V)
- Discharge protection or night light function adjustable (max. 20A), shut-off threshold via menu adjustable
- **FOX-360 for 2 battery banks**
- System voltage 12V or 24V (automatically)
- Battery type can be individually set for AGM, GEL and Lead-acid batteries
- Display with backlight (30sec)
- Loads are supplied always of battery 1
- Charge ratio from B1 to B2 adjustable

The charge regulators FOX-260 and FOX-360 are designed for 20A module current.

The graphical backlit LCD display with very legible lettering shows the actual informations: Battery voltage(s) [V], charging current [A], module generated power [A], power consumption [A], battery charge conditions as bar chart.

For the adjustment of basic settings such as selection of a battery type, various input screens are available.

The optimized loading characteristic achieved in combination with the Hardware PWM-control ensure significantly rapid and gentle charging of the battery. Hazardous gassing or overcharging are safely prevented.

The size of the heat sink is also dimensioned for high environmental temperatures.

	FOX-260	FOX-360
Charge of	1 battery bank	up to 2 battery banks
Battery switchover	none	Relay bistable, galvanic isolated
Charge ratio	none	standard 90%/10% (B1/B2), adjustable
Fuses to B1, B2	1x25A, soldered internally	2x25A, soldered internally
System voltage	12V/24V, automatic detection, both battery banks similar	
- Detection 12V	$U_{\text{battery 1}}$ : 6V ... 17V => 12V system	
- Detection 24V	$U_{\text{battery 1}}$ : larger 17V => 24V system	
System operating voltage	8,5V ... 35V	
Temp. compensation	-20mV/°K @12V, -40mV/°K @24V	
PWM frequency	244Hz	
max terminal voltage	50V (open circuit voltage of the modules, Uoc)	
Discharge protection	max. 20A at 25°C	
- Shut-off threshold	standard 10,5V, via menu adjustable	
- Switch-on/switch-off delay	60 seconds	
Nightlight function	max. 20A at 25°C	
- Switch on/switch off	no charge current of the module/ charge current present	
- Shut-off threshold	standard 11,25V, via menu adjustable	
- Time delay	10 minutes	
Display	backlit graphic LCD, 30 sec., 128x64 pixel	
Terminals	6 VA screws, max. 16mm <sup>2</sup>	8 VA screws, max. 16mm <sup>2</sup>
Power requirement	7,0mA (with backlight 18,0mA, 30sec.)	
Voltage drop	0,0 ... 0,27V (between 0 ... 20A)	
Environmental conditions	-25°C ... +50°C, non-thawing, IP 22	
Storing conditions	-25°C ... +80°C	
Weight	300g	
Dimensions	128,6 x 106,7 x 53,5mm (LxWxH)	

Technical changes reserved. State 02/2013



## RANGE OF APPLICATIONS

- For motor boats and sailing yachts
- For camping and caravan
- For mobile current supply
- For industry, shipping and building sector



## DIMENSIONS

