

AWZ643 v.1.0 Battery balancer 24V



Edition: 1 from 08.09.2023 Supersedes edition: ----

EN

Features:

- Operation with batteries with a capacity of 17..240 Ah
- Balancing type energy transfer
- Possibility of balancing batteries combined in 24V/36V/48V sets
- LED optical indication
- Protection against reverse connection
- Warranty 2 years

Technical description.

AWZ643 24V balancer is designed for voltage equalisation in 12V batteries (AGM, SLA) connected in series or series-parallel. The basic working principle of the module is to transfer energy from battery with higher voltage to battery with lower voltage. Equalising the charge in the batteries is beneficial and protects against overcharging or undercharging, which leads to a reduced service life.

Module has LEDs optical operation indication.

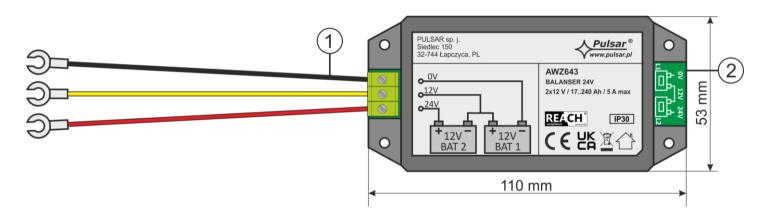


Fig.1. View of the module.

Table 1. Description of the components.

Element no. [Fig. 1]	Description			
1)	Cables for 2x12V battery connection Black - 0V Yellow - 12V Red - 24V			
	LEDs: L1, L2 – signaling the operating status			
2	Description	L1	L2	
	Equalised voltages BAT1	= BAT2 on	on	
	Energy transfer BAT2 -:	BAT1 blinking	-	
	Energy transfer BAT1 -:	BAT2 -	blinking	
	Voltage on BAT1 <10V or E	ΔT2 ~10\/	_	

Installation.

Balancer module should be connected to batteries using three wires terminated with fork terminals, maintaining correct polarity. Depending on the number of batteries and the way they are connected (series, series-parallel), the connection of the module should be carried out according to the diagram below.

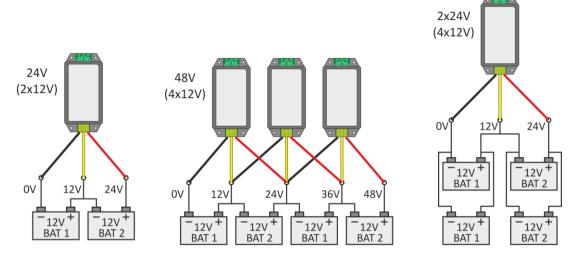


Fig. 1. Method of connecting to batteries.

Specifications.

Supply voltage	15 – 30 V DC		
Battery capacity	2x 12 V / 17240 Ah (AGM, SLA)		
Balancing current	5 A max.		
Balancing signal voltage	> 50mV		
Protection against deep discharge of battery	Disconnection below 10V, residual current < 1mA		
Short-circuit and reverse polarity protection	PTC polymer fuse		
LED operation indication	LEDs		
Operating temperature	-10°C+40°C		
Storage temperature	-20°C+60°C		
Dimensions (LxWxH)	110 x 53 x 35 [+/- 2mm]		
Net/gross weight	0,10 / 0,13 [kg]		
Enclosure	ABS, RAL9005, black		
Pattery cables	40 cm, AWG 18, Ф8		



WEEE LABEL

Waste electrical and electronic equipment must not be disposed of with normal household waste.

According to European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

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