

MANUAL RANGE EXTENDER JARO-JRE SERIE



- > JARO-JRE 12/24-15A
- > JARO-JRE 12/36-15A

SPECIFICATIONS JARO-JRE RANGE EXTENDERS

Parameter	JRE 12/24-15A	JRE 12/36-15A
Voltage range input	9,0 – 14,4 V	9,0 – 14,4 V
Current draw from alternator	35 – 40 A max.	45 – 55 A max.
Battery type for input	Lead acid (wet, AGM or Gel)	Lead acid (wet, AGM or Gel)
Input circuit breaker	60 A	60 A
Type input circuit breaker	Thermal magnetic	Thermal magnetic
Resettable	Yes	Yes
Button function	Extender Off or Automatic	Extender Off or Automatic
Automatic function	On above 13,2 V Off below 12,8 V	On above 13,2 V Off below 12,8 V
Type of switch	Voltage sensitive Relay 140 A, electronically managed	
Voltage output	28 V +/- 0,2 V	42 V +/- 0,2 V
Current output	15A max. depending on voltage in 24V or 36V battery	
Output circuit breaker	30 A	30 A
Type output circuit breaker	Thermal magnetic	Thermal magnetic
Resettable	Yes	Yes
IP rating VSR	IP65	IP65
IP rating converter	IP67	IP67
IP rating switch	IP65	IP65
IP rating ventilators	IP52	IP52
IP rating circuit breakers	IP54	IP54
Environment advised	Inside boat, protected from direct water spray	
Weight	2,0 kg	2,1 kg
Cable quality	Tinned copper core with silicone heat resistant isolation	
Connection ingoing	8mm ring terminals	
Connection outgoing	Anderson Grey SB50	Anderson Red SB50



JRE-12/24-15A



JRE-12/36-15A

SAFETY GUIDELINES

General safety

Attention should be paid to all safety instructions in this manual. Maintenance repair work should be carried out by qualified personnel. A damaged or abnormal functioning Range Extender should not be used. The range extender is intended to use for the charging of JaroceLLs LiFePO₄ batteries (24V or 36V range) by an outboard engine which is connected to a Lead Acid starter battery.

Safety during installation

You have to connect the range extender to batteries under voltage. Make sure you switch off all the users of these batteries before you make the connections. Prevent shortcut of the wiring during installation and fasten the ring terminals.

Installation and use

Mount the Range extender close to the starter battery. Make sure the place is free of splashing and dripping water. Keep the ventilators 5cm free from surfaces to enable optimal ventilation. Connect the 8mm ring terminals with the Lead Acid starter battery. Connect the grey or red connector (24V is grey, 36V is red) with a contra connector (included in the package). From this connector wires should be connected to the 24V or 36V battery. For a maximum of 2 meters you can use 2,5mm² wires. For wires from 2 to 6m length you have to use 4mm² or more.

Use the push button to switch the Range Extender in Automatic mode or Off. In Off mode the Range Extender will not take current from your starter circuit. In Automatic mode the Range Extender will look at the state of charge of your starter battery and whether the alternator is running. If the voltage is high enough the Range Extender will draw current from your starter circuit and increase the voltage to the right charging voltage for your 24V or 36V battery. As soon as the voltage of your starter circuit drops, the Range Extender will stop automatically to keep your starter battery full. As soon as you start the engine again, the Range Extender will start simultaneously. During normal use the circuit breakers will not switch off. In case a circuit breaker is off: check the wiring on short circuits.

WARRANTY

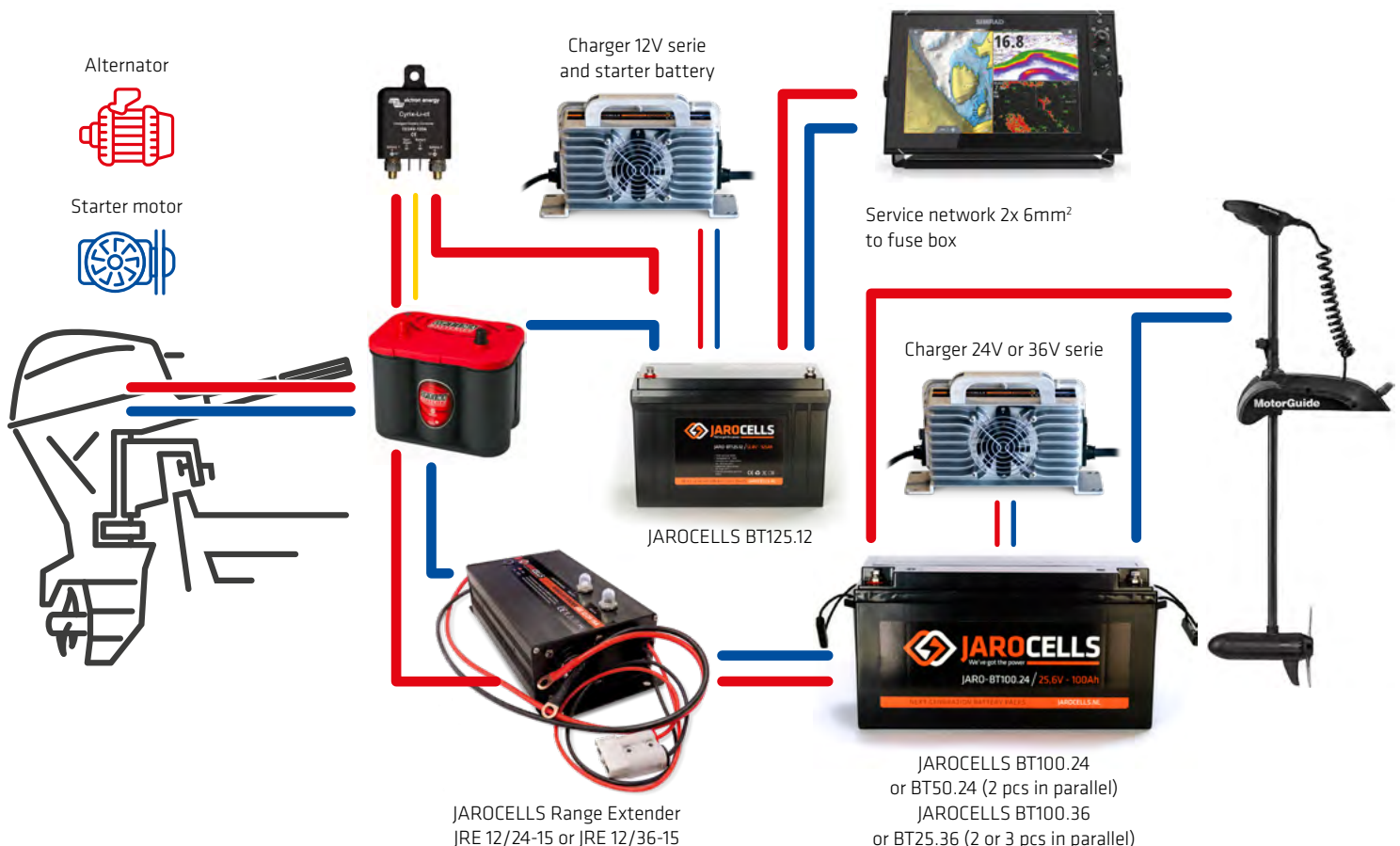
- > The warranty period is two years for the battery with attachments.

Warranty provision

- > The warranty applies to normal use according to recommendations and within specifications of the product.
- > Warranty is only given if the purchase invoice can be submitted.
- > The warranty does not go beyond repair or replacement of the delivered goods. Consequential damage is expressly stated excluded.
- > In all cases where the warranty conditions are not clear, an attempt will be made to resolve the complaints within reason unload. This within the provisions of liability.

Liability

- > Besides the warranty provisions on the delivered goods, JAROCCELLS B.V. will not accept any liability. JAROCCELLS B.V. shall not be liable for any direct, incidental or consequential damages of any nature, or losses or consequential damages or losses or expenses resulting from the use of this product.
- > The user of the product should take all precautions, required to prevent damage.
- > In case JAROCCELLS B.V. will be held responsible for damage or losses caused by the product, the compensation paid by JAROCCELLS B.V. will not exceed the payments of the assurance company. When the damage is not covered by the insurance, the maximum payment will be equal to the total of the invoice.
- > Liability and right to warranty is in any case excluded with:
 - Damage due to external disasters such as lightning strike
 - Incorrect installation or use
 - Repairs have been carried out by third parties or changes have been made to the product.



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NEXT GENERATION BATTERY PACKS