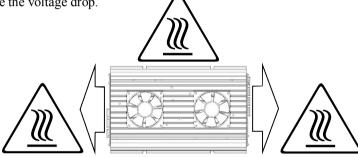
CONSIDERATION FOR THE INSTALATION

From the thermal point of view it is useful to know that the device especially if used in high ambient temperatures at full load can exceed 80 ° C, for this reason it is strongly recommended to keep it away from any objects that are affected by high temperatures.

To facilitate heat dissipation is strongly recommended to install the device with the fins upright. It is advised to leave at least 15cm of space above the fans and both ends of the device to ensure proper air circulation.

Electrically it is important to remember that, due to the possibility of high current loads, the voltage drop on the cables are not negligible.

It is important to install the device as close as possible to the devices powered from it. In this way it minimizes the distance to the load, (13.5V), and consequently minimize the voltage drop.



GENERAL CHARACTERISTICS

The design utilises a poly-phase switching voltage reducer topology, a feature that minimises both radiated and conducted noise.

The energy balance and efficiency between input and output is greater than 96% The device is protected against:

20V a 32V

- \Rightarrow Reverse polarity
- \Rightarrow Over voltage / current input
- \Rightarrow Over voltage / current output
- \Rightarrow Over temperature

Specifications:

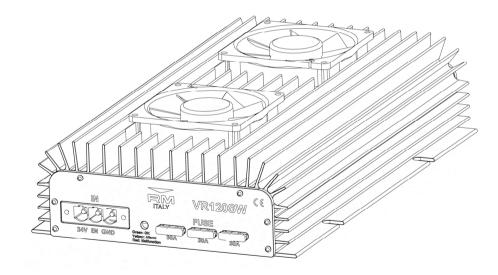
InputVoltage	
Output Voltage	
Stand by current	
Quiescent crrent	

Maximum Input Current Maximum Output Current Maximum Output Power Ambient temperature 13.4V ± 0.5V
25mA
600mA (WARNING Leaving EN Input active may cause undesireable battery discharge)
80A
120A (CONTINUOS OPERATION)
1620W
-10°C to +55°C

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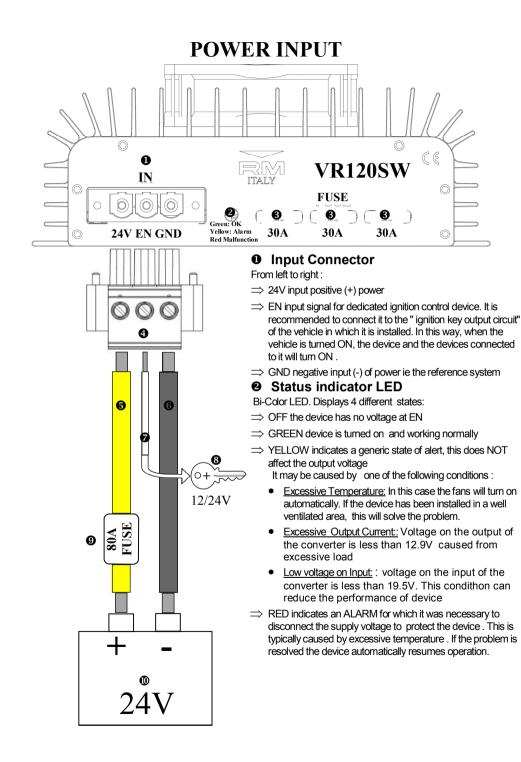
VR120SW











- 3 Blade Fuses at 30A
 - The use of excessively rated fuses can cause irreversible damage to the device
- Connector with screw terminal block
 Three-pin plug supplied which can accept cables up to 16 mm²
- Positive power cable (+) We suggest to use a cable 16 mm² YELLOW
- Negative power cable (-) We suggest to use a cable 16 mm ² BLACK
- EN signal cable We suggest to use a cable 2mm² WHITE
- This signal control the power-up of the device

Usually connects to the ignition key circuit however it may alternatively be connected to a remote switch for manual EN signal. Leaving the device permanentaly on could cause an unwanted descharge of the battery Φ

Safety Fuse

For increased safety it is strongly recommended that an 80A fuse is installed close to the battery Φ

Battery or 24V Power source

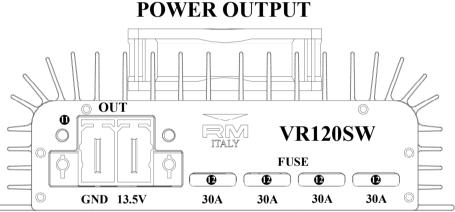
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12V LOADS

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Make sure that the battery is charged, has the correct voltage and is capable of delivering at least $65\mathrm{A}$



Input Connector

From left to right: :

- \Rightarrow GND negative input (-) of power ie the reference system
- \Rightarrow 13.5V Positive Output Power maximum current 120A
- 4 Blade Fuses at 30A

Use of excessively rated fuses can cause irreversible damage to the device

- Connector with screw terminal block Bipolar plug supplied which can accept cables up to 32mm²
- We suggest to use a cable 32mm² BLACK
- Positive power cable (+) We suggest to use a cable 32 mm² RED
- Devices connected at VR120SW
 Do not connect loads that absorb in excess of 1620W or 120A