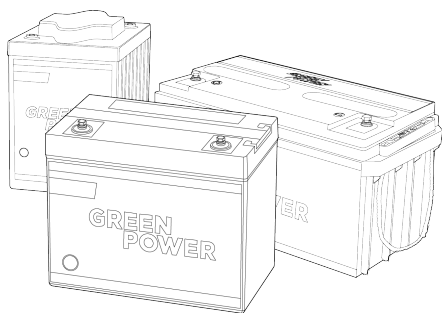


# POWER & CONTROL

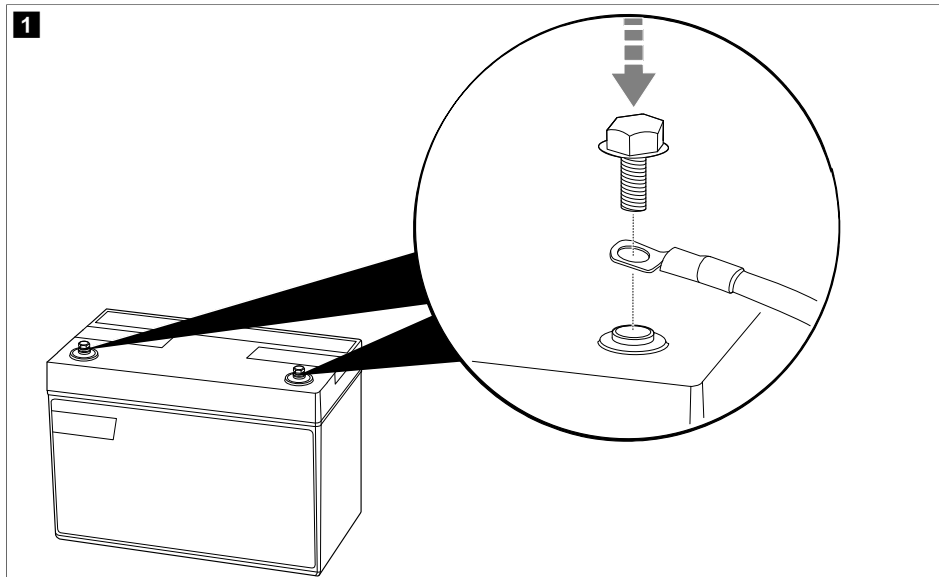
## GREEN POWER



**GP60, GP80, GP80S, GP90, GP90S, GP100, GP100B, GP120, GP140, GP150, GP200, GP210, GP250, GP6-235**

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# English

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## 1 Important notes

Please read these instructions carefully and follow all instructions, guidelines, and warnings included in this product manual in order to ensure that you install, use, and maintain the product properly at all times. These instructions **MUST** stay with this product.

By using the product, you hereby confirm that you have read all instructions, guidelines, and warnings carefully and that you understand and agree to abide by the terms and conditions as set forth herein. You agree to use this product only for the intended purpose and application and in accordance with the instructions, guidelines, and warnings as set forth in this product manual as well as in accordance with all applicable laws and regulations. A failure to read and follow the instructions and warnings set forth herein may result in an injury to yourself and others, damage to your product or damage to other property in the vicinity. This product manual, including the instructions, guidelines, and warnings, and related documentation, may be subject to changes and updates. For up-to-date product information, please visit [documents.dometic.com](https://documents.dometic.com).

## 2 Explanation of symbols



### **WARNING!**

Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



### **CAUTION!**

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



### **NOTICE!**

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



**Note** Supplementary information for operating the product.

### 3 Safety instructions



**WARNING! Failure to obey these warnings could result in death or serious injury.**

- In event of fire, use a fire extinguisher which is suitable for electrical device.
- Do not operate the device if it is visibly damaged.



**CAUTION! Failure to obey these warnings could result in death or serious injury.**

- Installation, assembly, and wiring as well as all other work may only be performed by qualified electrical specialists. Inadequate repairs may cause serious hazards.
- Installation in potentially explosive areas such as rooms with inflammable liquids or gases is not permitted.
- Do not install or keep the device near flames or other heat sources (heating, direct sunlight, gas ovens etc.).
- Children shall not play with the appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.



**NOTICE! Indicates a situation that, if not avoided, can result in property damage.**

- Check that the voltage specification on the data plate corresponds to that of the energy supply.
- Never immerse the device in water.
- Protect the device and cables against heat and moisture.
- Do not expose the device to rain.
- Make sure that the mounting surface is capable of supporting the weight of the device.
- Lay the cables so that they cannot be tripped over or damaged.
- Use ductwork or cable ducts if it is necessary to lay cables through metal panels or other panels with sharp edges.

### 4 Scope of delivery

| Description      | Quantity |
|------------------|----------|
| Battery          | 1        |
| Operating manual | 1        |

### 5 Intended use

The battery is intended to be used in motorhomes, to provide energy to the appliances and equipment.

- GP60, GP80, GP80S, GP90, GP90S, GP100, GP100B, GP120, GP140, GP150, GP200, GP210 and GP250 models: Batteries intended to be used with 12 V electrical systems.
- GP6-235 models: Battery intended to be used with 6 V electrical systems.

This product is only suitable for the intended purpose and application in accordance with these instructions.

This manual provides information that is necessary for proper installation and/or operation of the product. Poor installation and/or improper operating or maintenance will result in unsatisfactory performance and a possible failure.

The manufacturer accepts no liability for any injury or damage to the product resulting from:

- Incorrect assembly or connection, including excess voltage
- Incorrect maintenance or use of spare parts other than original spare parts provided by the manufacturer
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in this manual

Dometic reserves the right to change product appearance and product specifications.

## 6 Target group



The electrical power supply must be connected by a qualified electrician who has demonstrated skill and knowledge related to the construction and operation of electrical equipment and installations, and who is familiar with the applicable regulations of the country in which the equipment is to be installed and/or used, and has received safety training to identify and avoid the hazards involved.

## 7 Technical description

The batteries are manufactured with absorbed glass mat (AGM) technology and are completely sealed. The batteries are employing oxygen recombination technology and are deep cycle batteries with valve regulated lead acid (VRLA) technology. The batteries are built with special high-density lead-calcium alloy plates, which increase charge retention, allowing low self-discharge and a high number of cycles. The featured separators with reinforced grids make the batteries resistant to vibration and promote perfect adhesion of the electrolyte to the plates.

## 8 Installation



### **WARNING! Damage hazard**

When working around a battery, do not allow tools to bridge the battery terminals or short circuit any part of the battery.



### **NOTICE! Damage hazard**

- To prevent damage to the equipment, deactivate all loads and the charger before battery installation.
- Battery cables must not be connected to the battery in reverse polarity, otherwise damage to the device may occur.
- To prevent damage to the equipment, always connect the positive cable first.



**Note** The battery can be installed in any position or angle.

1. Connect the battery cables.

fig. **1** on page 1

2. To ensure a secure electrical contact, tighten the fasteners to the end of the threads, without using excessive force.

## 9 Operation



### **NOTICE! Damage hazard**

To prevent sulfation of the battery, do not recharge the battery if the voltage is below 10 V.



**Note** The alternator and any solar panels may not be sufficient to completely recharge the battery during the journey. Charging from the 230 V mains immediately after each discharge, avoids the process of sulfation of the plates.

1. Always recharge the battery completely at the end of each use.
2. Wait 12 hours and check that the voltage is at least 12.8 V.



**Note** Do not use the battery if the voltage is below 11 V, as it may not provide enough power to the appliances and equipment.

## 10 Cleaning and maintenance

The batteries are maintenance-free.

- > Occasionally clean the product with a damp cloth.

## 11 Storing

- > Before storing, fully charge the battery with a recommended battery charger for 1-2 days.
- > When the battery is not in use, ensure that the battery voltage does not drop below 12.6 V.
- > When storing the battery on longer term, completely recharge it every 30 days to prevent sulfation damage.

## 12 Troubleshooting

| Problem                                | Possible cause                 | Suggested remedy                                                                        |
|----------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|
| No output voltage at battery terminal. | Wrong wiring polarity.         | > Connect the battery properly.                                                         |
|                                        | Low battery voltage.           | > Recharge the battery completing the charging cycle.                                   |
|                                        | Battery overheated.            | > Wait 30 minutes to cool down the battery and reset itself.                            |
|                                        | Battery shorted or overloaded. | > Disconnect all the cables from the battery, wait 10 seconds and reconnect the cables. |

| Problem                             | Possible cause                  | Suggested remedy                                             |
|-------------------------------------|---------------------------------|--------------------------------------------------------------|
|                                     |                                 | > Recharge the battery completing the charging cycle.        |
| Battery capacity is reduced.        | Long storage.                   | > Recharge the battery completing the charging cycle.        |
| Not possible to charge the battery. | Battery temperature below 0 °C. | > Allow the battery to warm up.                              |
|                                     | Battery overheated.             | > Wait 30 minutes to cool down the battery and reset itself. |

## 13 Disposal



Recycling packaging material: Place the packaging material in the appropriate recycling waste bins whenever possible.



Recycling products with batteries, rechargeable batteries and light sources: Remove any batteries, rechargeable batteries, and light sources before recycling the product. Return defective or used batteries to your retailer or dispose of them at collection points. Do not dispose of any batteries, rechargeable batteries, and light sources with general household waste. If you wish to finally dispose of the product, ask your local recycling center or specialist dealer for details about how to do this in accordance with the applicable disposal regulations. The product can be disposed free of charge.

## 14 Warranty

The statutory warranty period applies. If the product is defective, please contact the manufacturer's branch in your country (see [dometic.com/dealer](http://dometic.com/dealer)) or your retailer.

For repair and warranty processing, please include the following documents when you send in the device:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault

Note that self-repair or nonprofessional repair can have safety consequences and might void the warranty.

## 15 Technical data

|                             | GP60                         | GP80                         |
|-----------------------------|------------------------------|------------------------------|
| Technology                  | Absorbed glass mat (AGM)     |                              |
| Nominal voltage             | 12 V                         |                              |
| Charge voltage              | 14.5 ... 14.9 V              |                              |
| Float voltage               | 13.5 ... 13.8 V              |                              |
| Maximum charge current      | 18 A                         | 24 A                         |
| Maximum internal resistance | 7 mOhm at 25 °C, full charge | 4 mOhm at 25 °C, full charge |
| Capacity, at 20 °C          | 60 Ah, 20 h (10.8 V)         | 80 Ah, 20 h (10.8 V)         |

|                                  | <b>GP60</b>                             | <b>GP80</b>              |
|----------------------------------|-----------------------------------------|--------------------------|
|                                  | 55 Ah, 10 h (10.8 V)                    | 74 Ah, 10 h (10.8 V))    |
|                                  | 52.5 Ah, 5 h (10.5 V)                   | 70 Ah, 5 h (10.5 V)      |
| Nominal temperature              | 25 ± 3 °C                               |                          |
| Operating temperature, discharge | – 15 ... 50 °C                          |                          |
| Operating temperature, charge    | – 10 ... 50 °C                          |                          |
| Operating temperature, storage   | – 20 ... 50 °C                          |                          |
| Terminal type                    | F11                                     |                          |
| Terminal material                | Copper                                  |                          |
| External construction            | Acrylonitrile butadiene styrene UL-94HB |                          |
| Weight                           | 19 kg ± 4 %                             | 24 kg ± 4 %              |
| Dimensions (W x D x H)           | 260 mm × 168 mm × 214 mm                | 350 mm × 167 mm × 179 mm |

|                                  | <b>GP80S</b>                            | <b>GP90</b>              |
|----------------------------------|-----------------------------------------|--------------------------|
| Technology                       | Absorbed glass mat (AGM)                |                          |
| Nominal voltage                  | 12 V                                    |                          |
| Charge voltage                   | 14.5 ... 14.9 V                         |                          |
| Float voltage                    | 13.5 ... 13.8 V                         |                          |
| Maximum charge current           | 24 A                                    | 27 A                     |
| Maximum internal resistance      | 5.5 mOhm at 25 °C, full charge          |                          |
| Capacity, at 20 °C               | 80 Ah, 20 h (10.8 V)                    | 90 Ah, 20 h (10.8 V)     |
|                                  | 74 Ah, 10 h (10.8 V)                    | 83 Ah, 10 h (10.8 V)     |
|                                  | 70 Ah, 5 h (10.5 V)                     | 79 Ah, 5 h (10.5 V)      |
| Nominal temperature              | 25 ± 3 °C                               |                          |
| Operating temperature, discharge | – 15 ... 50 °C                          |                          |
| Operating temperature, charge    | – 10 ... 50 °C                          |                          |
| Operating temperature, storage   | – 20 ... 50 °C                          |                          |
| Terminal type                    | F11                                     |                          |
| Terminal material                | Copper                                  |                          |
| External construction            | Acrylonitrile butadiene styrene UL94-HB |                          |
| Weight                           | 24 kg ± 4 %                             | 27 kg ± 4 %              |
| Dimensions (W x D x H)           | 260 mm × 168 mm × 214 mm                | 306 mm × 169 mm × 214 mm |

|                        | <b>GP90S</b>             | <b>GP100</b> |
|------------------------|--------------------------|--------------|
| Technology             | Absorbed glass mat (AGM) |              |
| Nominal voltage        | 12 V                     |              |
| Charge voltage         | 14.5 ... 14.9 V          |              |
| Float voltage          | 13.5 ... 13.8 V          |              |
| Maximum charge current | 26 A                     | 30 A         |

|                                  | <b>GP90S</b>                            | <b>GP100</b>                   |
|----------------------------------|-----------------------------------------|--------------------------------|
| Maximum internal resistance      | 5 mOhm at 25 °C, full charge            | 4.5 mOhm at 25 °C, full charge |
| Capacity, at 20 °C               | 90 Ah, 20 h (10.8 V)                    | 100 Ah, 20 h (10.8 V)          |
|                                  | 83 Ah, 10 h (10.8 V)                    | 92 Ah, 10 h (10.8 V)           |
|                                  | 79 Ah, 5 h (10.5 V)                     | 87 Ah, 5 h (10.5 V)            |
| Nominal temperature              | 25 ± 3 °C                               |                                |
| Operating temperature, discharge | – 15 ... 50 °C                          |                                |
| Operating temperature, charge    | – 10 ... 50 °C                          |                                |
| Operating temperature, storage   | – 20 ... 50 °C                          |                                |
| Terminal type                    | F12                                     |                                |
| Terminal material                | Copper                                  |                                |
| External construction            | Acrylonitrile butadiene styrene UL94-HB |                                |
| Weight                           | 25.5 kg ± 4 %                           | 30 kg ± 4 %                    |
| Dimensions (W x D x H)           | 350 mm × 166 mm × 185 mm                | 330 mm × 171 mm × 220 mm       |

|                                  | <b>GP100B</b>                           | <b>GP120</b>                 |
|----------------------------------|-----------------------------------------|------------------------------|
| Technology                       | Absorbed glass mat (AGM)                |                              |
| Nominal voltage                  | 12 V                                    |                              |
| Charge voltage                   | 14.5 ... 14.9 V                         | 14.5 ... 14.8 V              |
| Float voltage                    | 13.5 ... 13.8 V                         | 13.5 ... 13.8 V              |
| Maximum charge current           | 30 A                                    | 36 A                         |
| Maximum internal resistance      | 4.5 mOhm at 25 °C, full charge          | 4 mOhm at 25 °C, full charge |
| Capacity, at 20 °C               | 100 Ah, 20 h (10.8 V)                   | 120 Ah, 20 h (10.8 V)        |
|                                  | 90 Ah, 10 h (10.8 V)                    | 110 Ah, 10 h (10.8 V)        |
|                                  | 85 Ah, 5 h (10.5 V)                     | 105 Ah, 5 h (10.5 V)         |
| Nominal temperature              | 25 ± 3 °C                               |                              |
| Operating temperature, discharge | – 15 ... 50 °C                          |                              |
| Operating temperature, charge    | – 10 ... 50 °C                          |                              |
| Operating temperature, storage   | – 20 ... 50 °C                          |                              |
| Terminal type                    | F12                                     |                              |
| Terminal material                | Copper                                  |                              |
| External construction            | Acrylonitrile butadiene styrene UL94-HB |                              |
| Weight                           | 27 kg ± 4 %                             | 31.5 kg ± 4 %                |
| Dimensions (W x D x H)           | 350 mm × 166 mm × 185 mm                | 330 mm × 171 mm × 220 mm     |

|                 | <b>GP140</b>             | <b>GP150</b> |
|-----------------|--------------------------|--------------|
| Technology      | Absorbed glass mat (AGM) |              |
| Nominal voltage | 12 V                     |              |
| Charge voltage  | 14.5 ... 14.9 V          |              |

|                                  | GP140                                   | GP150                          |
|----------------------------------|-----------------------------------------|--------------------------------|
| Float voltage                    | 13.5 ... 13.8 V                         |                                |
| Maximum charge current           | 40 A                                    | 45 A                           |
| Maximum internal resistance      | 3.8 mOhm at 25 °C, full charge          | 3.5 mOhm at 25 °C, full charge |
| Capacity, at 20 °C               | 140 Ah, 20 h (10.8 V)                   | 150 Ah, 20 h (10.8 V)          |
|                                  | 125 Ah, 10 h (10.8 V)                   | 137 Ah, 10 h (10.8 V)          |
|                                  | 115 Ah, 5 h (10.5 V)                    | 130 Ah, 5 h (10.5 V)           |
| Nominal temperature              | 25 ± 3 °C                               |                                |
| Operating temperature, discharge | – 15 ... 50 °C                          |                                |
| Operating temperature, charge    | – 10 ... 50 °C                          |                                |
| Operating temperature, storage   | – 20 ... 50 °C                          |                                |
| Terminal type                    | F12                                     |                                |
| Terminal material                | Copper                                  |                                |
| External construction            | Acrylonitrile butadiene styrene UL94-HB |                                |
| Weight                           | 42 kg ± 4 %                             | 44 kg ± 4 %                    |
| Dimensions (W x D x H)           | 342 mm × 172 mm × 285 mm                | 485 mm × 172 mm × 242 mm       |

|                                  | GP200                                   | GP210                        |
|----------------------------------|-----------------------------------------|------------------------------|
| Technology                       | Absorbed glass mat (AGM)                |                              |
| Nominal voltage                  | 12 V                                    |                              |
| Charge voltage                   | 14.5 ... 14.9 V                         |                              |
| Float voltage                    | 13.5 ... 13.8 V                         |                              |
| Maximum charge current           | 54 A                                    | 60 A                         |
| Maximum internal resistance      | 3.3 mOhm at 25 °C, full charge          | 3 mOhm at 25 °C, full charge |
| Capacity, at 20 °C               | 200 Ah, 20 h (10.8 V)                   | 210 Ah, 20 h (10.8 V)        |
|                                  | 180 Ah, 10 h (10.8 V)                   | 189 Ah, 10 h (10.8 V)        |
|                                  | 165 Ah, 5 h (10.5 V)                    | 175 Ah, 5 h (10.5 V)         |
| Nominal temperature              | 25 ± 3 °C                               |                              |
| Operating temperature, discharge | – 15 ... 50 °C                          |                              |
| Operating temperature, charge    | – 10 ... 50 °C                          |                              |
| Operating temperature, storage   | – 20 ... 50 °C                          |                              |
| Terminal type                    | F12                                     |                              |
| Terminal material                | Copper                                  |                              |
| External construction            | Acrylonitrile butadiene styrene UL94-HB |                              |
| Weight                           | 54 kg ± 4 %                             | 61 kg ± 4 %                  |
| Dimensions (W x D x H)           | 532 mm × 207 mm × 219 mm                | 522 mm × 238 mm × 221 mm     |

|            | GP250                    | GP6-235 |
|------------|--------------------------|---------|
| Technology | Absorbed glass mat (AGM) |         |

|                                  | <b>GP250</b>                            | <b>GP6-235</b>               |
|----------------------------------|-----------------------------------------|------------------------------|
| Nominal voltage                  | 12 V                                    | 6 V                          |
| Charge voltage                   | 14.5 ... 14.9 V                         | 7.2 ... 7.45 V               |
| Float voltage                    | 13.5 ... 13.8 V                         | 6.75 ... 6.9 V               |
| Maximum charge current           | 75 A                                    | 66 A                         |
| Maximum internal resistance      | 2.6 mOhm at 25 °C, full charge          | 2 mOhm at 25 °C, full charge |
| Capacity, at 20 °C               | 250 Ah, 20 h (10.8 V)                   | 235 Ah, 20 h (5.4 V)         |
|                                  | 215 Ah, 10 h (10.8 V)                   | 210 Ah, 10 h (5.4 V)         |
|                                  | 187 Ah, 5 h (10.5 V)                    | 195 Ah, 5 h (5.25 V)         |
| Nominal temperature              | 25 ± 3 °C                               |                              |
| Operating temperature, discharge | – 15 ... 50 °C                          |                              |
| Operating temperature, charge    | – 10 ... 50 °C                          |                              |
| Operating temperature, storage   | – 20 ... 50 °C                          |                              |
| Terminal type                    | F12                                     |                              |
| Terminal material                | Copper                                  |                              |
| External construction            | Acrylonitrile butadiene styrene UL94-HB |                              |
| Weight                           | 74 kg ± 4 %                             | 33 kg ± 4 %                  |
| Dimensions (W x D x H)           | 521 mm × 269 mm × 223 mm                | 243 mm × 187 mm × 276 mm     |