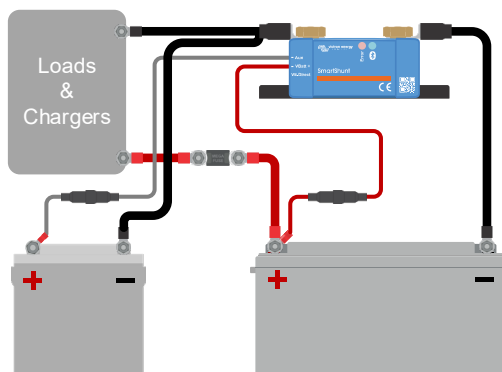


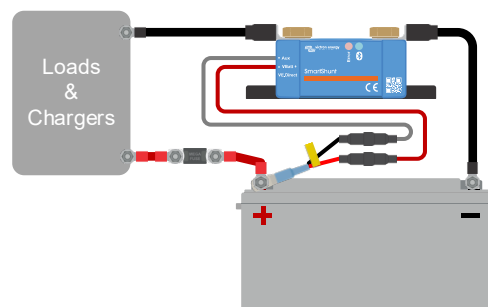


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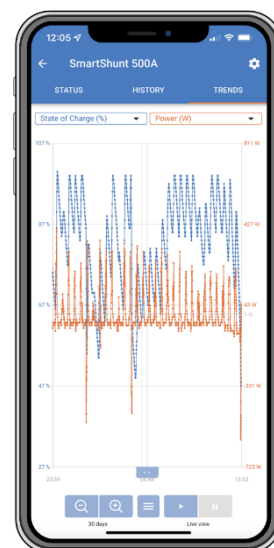
| SmartShunt IP65                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage range                                            | 300 A / 500 A / 1000 A / 2000 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Current draw                                                    | 6.5 - 70 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Input voltage range, auxiliary battery                          | < 1 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Battery capacity (Ah)                                           | 6.5 - 70 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Operating temperature range                                     | 1 - 9999 Ah                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Measures voltage of second battery, or temperature, or midpoint | -40 +50 °C (-40 - 120 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Temperature measurement range                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VE.Direct communication port                                    | -20 +50 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                 | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RESOLUTION & ACCURACY                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Current                                                         | ± 0.01 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Voltage                                                         | ± 0.01 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Amp hours                                                       | ± 0.1 Ah                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| State of charge (0 - 100 %)                                     | ± 0.1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Time to go                                                      | ± 1 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Temperature (if optional temperature sensor connected)          | ± 1 °C/°F<br>(0 - 50 °C or 30 - 120 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Accuracy of current measurement                                 | ± 0.4 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Offset                                                          | Less than 10 / 10 / 20 / 40 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Accuracy of voltage measurement                                 | ± 0.3 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| INSTALLATION & DIMENSIONS                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dimensions (h x w x d)                                          | 300A: 44 x 120 x 38 mm<br>500A: 46 x 120 x 54 mm<br>1000A: 68 x 168 x 75 mm<br>2000A: 68 x 168 x 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Shunt connection bolts                                          | 300 A: M8<br>500 A, 1000 A, 2000 A: M10 (0.3937 inch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protection category                                             | IP65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| STANDARDS                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Safety                                                          | EN 60335-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Emission / Immunity                                             | EN-IEC 61000-6-1 EN-IEC 61000-6-2<br>EN-IEC 61000-6-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Automotive                                                      | EN 50498                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cables                                                          | Two 1.5 m cables with 1 A fuse, for '+' connection and starter battery or midpoint connection                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| VE.Direct cable                                                 | 1.5 m cable with a VE.Direct socket. Note that a (not included) VE.Direct cable is needed to connect a GX device.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Temperature sensor                                              | Optional (ASS000100000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A note regarding the range of the Bluetooth signal              | The shunt and the electric cables do negatively influence the range of the Bluetooth signal. The resulting range of 10-15 meter is however satisfactory in most cases.<br><br>The proximity of other electrically conducting elements, such as the metal chassis of a vehicle or seawater around the hull if a boat, may reduce the range of the Bluetooth signal to an unacceptable level. The solution in such a case is to add a VE.Direct Bluetooth Dongle (ASS030536011) to the system, and to switch off Bluetooth in the SmartShunt. |
| STORED TRENDS                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Data stored                                                     | Battery voltage, Current, State of Charge % as well as the Aux input (Battery temperature, or midpoint deviation, or starter battery voltage).                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of days trends data is stored                            | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



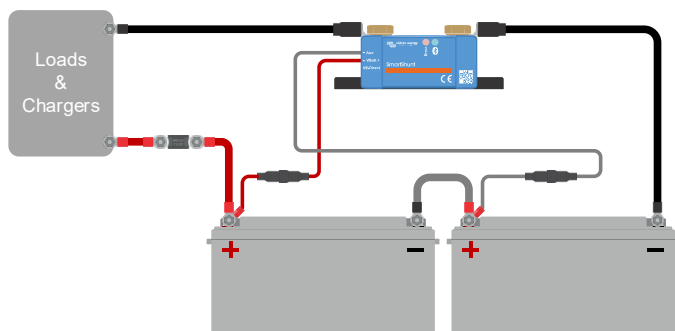
Measuring voltage of the starter battery



Measuring battery temperature



Stored trends for SmartShunt



Measuring battery bank midpoint