

# ENERBATT 3G

## ENERBATT 3G TECHNICAL DATA SHEET

| MODEL   |  | SPECIFICATIONS  |            |           |                 |                 |
|---|--|---|------------|-----------|-----------------|-----------------|
| BMS-DC-LCDII<br>(Central Unit)                                  | User interface                         | 7" colour LCD touch screen display                            |            |           |                 |                 |
|   | Supply voltage                         | 12 Vdc  |            |           |                 |                 |
|   | Power consumption                      | ≤ 9 W   |            |           |                 |                 |
|   | Communication ports                    | Ethernet, 2 RS485 Modbus RTU, dry relay contacts (1 in/3 out) |            |           |                 |                 |
|   | RF receiver monitoring                 | Up to 63 RF receivers   |            |           |                 |                 |
|   | Wireless devices that can be connected | Up to 750   |            |           |                 |                 |
|   | Storage capacity                       | SD memory card up to 16 gigabytes                             |            |           |                 |                 |
|   | Dimensions (WxDxH) mm                  | 260x57x150  |            |           |                 |                 |
|   | Weight (kg)                            | 0.85  |            |           |                 |                 |
| BMS-RFR<br>(RF receivers)                                       | Supply voltage                         | 12 Vdc  |            |           |                 |                 |
|   | Power consumption                      | ≤ 3 W   |            |           |                 |                 |
|   | Operating frequency                    | RF 2.4 GHz (wireless)*  |            |           |                 |                 |
|   | Wireless devices that can be connected | Up to 256   |            |           |                 |                 |
|   | Dimensions (WxDxH) mm                  | 129x70x35.5   |            |           |                 |                 |
|   | Weight                                 | 0.4   |            |           |                 |                 |
| BMS-BMK<br>(Battery meter)                                      | Voltage                                | 1.2V (Ni-Cd)  | 2 V        | 6 V       | 12 V            |                 |
|   | Measurement range                      | 0.95–2.00 V   | 1.48–4.00V | 4.2–8.0V  | 8.5–16.0V       |                 |
|   | Tolerance                              | ±5 mV   |            |           | ±10 mV          |                 |
|   | Impedance measurement accuracy         | 2 μΩ  |            | 10 μΩ     | >65 Ah<br>15 μΩ | <65 Ah<br>25 μΩ |
|   | Measurable temperature**               | 0–100°C ±1°C  |            |           |                 |                 |
|   | Power consumption                      | ≤ 0.5 W   |            |           |                 |                 |
|   | Input impedance                        | ≥ 1 mΩ  |            |           |                 |                 |
|   | Dimensions (WxDxH) mm                  | 100x70x27   |            |           |                 |                 |
|   | Weight (kg)                            | 0.1   |            |           |                 |                 |
| BMS-SMK<br>(Battery Monitoring System)<br>SMK<br>(String meter) | Measurement range                      | 0–120 V   |            | 120–750 V |                 |                 |
|   | Tolerance                              | ±0.2%   |            |           |                 |                 |
|   | Measurable temperature                 | 0–100°C ±1°C  |            |           |                 |                 |
|   | Measured current range***              | 0–3000 A  |            |           |                 |                 |
|   | Supply voltage                         | 12 Vdc  |            |           |                 |                 |
|   | Power consumption                      | ≤1.5 W  |            |           |                 |                 |
|   | Input impedance                        | ≥1 mΩ   |            |           |                 |                 |
|   | Dimensions (WxDxH) mm                  | 100x70x27   |            |           |                 |                 |
|   | Weight (kg)                            | 0.09  |            |           |                 |                 |

\* The maximum transmission distance is estimated to be 50 m if there are no obstacles. A distance of less than 20 m is recommended for optimal performance.

\*\* The optional temperature sensor (TES) is required in order to measure the temperature.

\*\*\* The optional Hall-effect current transformer (HCT) is required in order to measure the battery current.