



# Solar PV Systems

Deep cycle AGM & Gel batteries

| Battery specification              |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------|-----------------|-----------------|-------------------------------------------------------------|-----------------|------------------|------------------|
|                                    | Cell balancing only                                                                                                |                |                 |                 | Cell balancing and BMS interface                            |                 |                  |                  |
| VOLTAGE AND CAPACITY               | LFP-CB 12,8/60                                                                                                     | LFP-CB 12,8/90 | LFP-CB 12,8/160 | LFP-CB 12,8/200 | LFP-BMS 12,8/60                                             | LFP-BMS 12,8/90 | LFP-BMS 12,8/160 | LFP-BMS 12,8/200 |
| Nominal voltage                    | 12.8v                                                                                                              | 12.8v          | 12.8v           | 12.8v           | 12.8v                                                       | 12.8v           | 12.8v            | 12.8v            |
| Nominal capacity @ 25°C*           | 60Ah                                                                                                               | 90Ah           | 160Ah           | 200Ah           | 60Ah                                                        | 90Ah            | 160Ah            | 200Ah            |
| Nominal capacity @ 0°C*            | 48Ah                                                                                                               | 72Ah           | 130Ah           | 160Ah           | 48Ah                                                        | 72Ah            | 130Ah            | 160Ah            |
| Nominal capacity @ -20°C*          | 30Ah                                                                                                               | 45Ah           | 80Ah            | 100Ah           | 30Ah                                                        | 45Ah            | 80Ah             | 100Ah            |
| Nominal energy @ 25°C*             | 768Wh                                                                                                              | 1152Wh         | 2048Wh          | 2560Wh          | 768Wh                                                       | 1152Wh          | 2048Wh           | 2560Wh           |
| *Discharge current ≤1C             |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |
| CYCLE LIFE                         |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |
| 80% DoD                            | 2500 cycles                                                                                                        |                |                 |                 |                                                             |                 |                  |                  |
| 70% DoD                            | 3000 cycles                                                                                                        |                |                 |                 |                                                             |                 |                  |                  |
| 50% DoD                            | 5000 cycles                                                                                                        |                |                 |                 |                                                             |                 |                  |                  |
| DISCHARGE                          |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |
| Maximum continuous discharge cur   | 180A                                                                                                               | 270A           | 400A            | 500A            | 180A                                                        | 270A            | 400A             | 500A             |
| Recommended continuous discharg    | ≤60A                                                                                                               | ≤90A           | ≤160A           | ≤200A           | ≤60A                                                        | ≤90A            | ≤160A            | ≤200A            |
| Maximum 10 s pulse current         | 600A                                                                                                               | 900A           | 1200A           | 1500A           | 600A                                                        | 900A            | 1200A            | 1500A            |
| End of discharge voltage           | 11V                                                                                                                | 11V            | 11V             | 11V             | 11V                                                         | 11V             | 11V              | 11V              |
| OPERATING CONDITIONS               |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |
| Operating temperature              | -20°C to +50°C (maximum charge current when battery temperature < 0°C: 0,05C, i.e. 10A in case of a 200Ah battery) |                |                 |                 |                                                             |                 |                  |                  |
| Storage temperature                | -45°C to +70°C                                                                                                     |                |                 |                 |                                                             |                 |                  |                  |
| Humidity (non-condensing)          | Max. 95%                                                                                                           |                |                 |                 |                                                             |                 |                  |                  |
| Protection class                   | IP 54                                                                                                              |                |                 |                 |                                                             |                 |                  |                  |
| CHARGE                             |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |
| Charge voltage                     | Between 14V and 15V (<14.5V Recomend)                                                                              |                |                 |                 |                                                             |                 |                  |                  |
| Float voltage                      | 13,6V                                                                                                              |                |                 |                 |                                                             |                 |                  |                  |
| Maximum charge current             | 60Ah                                                                                                               | 90Ah           | 160Ah           | 200Ah           | 180A                                                        | 270A            | 400A             | 500A             |
| Recommended charge current         | ≤20A                                                                                                               | ≤25A           | ≤40A            | ≤50A            | ≤30A                                                        | ≤45A            | ≤80A             | ≤100A            |
| OTHER                              |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |
| Max storage time @ 25°C*           | 1 year                                                                                                             |                |                 |                 |                                                             |                 |                  |                  |
| BMS connection                     | n. a                                                                                                               |                |                 |                 | Male + female cable with M8 circular connector, length 50cm |                 |                  |                  |
| Power connection (threaded inserts | M8                                                                                                                 | M8             | M10             | M10             | M8                                                          | M8              | M10              | M10              |
| Dimensions (hwxwd) mm              | 235x293x139                                                                                                        | 249x293x168    | 320x338x233     | 295x425x274     | 235x293x139                                                 | 249x293x168     | 320x338x233      | 295x425x274      |
| Weight                             | 12kg                                                                                                               | 16kg           | 33kg            | 42kg            | 12kg                                                        | 16kg            | 33kg             | 42kg             |
| *When fully charged                |                                                                                                                    |                |                 |                 |                                                             |                 |                  |                  |

**victron energy** BLUE POWER

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