



# AMPERE ENERGY

CHANGE IS SIMPLE



| General specifications                              | SQUARE 33   | SQUARE 33 PV | SQUARE 63 | SQUARE 63 PV |
|---|---|--------------|-----------|--------------|
| Protection class                                    | IP 22   |              |           |              |
| Ambient temperature range                           | 0 °C to + 40 °C   |              |           |              |
| Optimum temperature range                           | +15 to +30 °C   |              |           |              |
| Relative humidity (non-condensing) Protection class | 10 – 90 % (non condensing)  |              |           |              |
| Size (Width x length x depth), mm                   | 1050 X 1050 X 180 *   |              |           |              |
| Weight (kg)   | 65*   |              | 100*      |              |
| <b>Energy Management System</b>                     |   |              |           |              |
| Remote monitoring & software updates                | User interface via computer or app via Cloud Technology   |              |           |              |
| Communication ports                                 | Wifi / Ethernet / USB   |              |           |              |
| Energy Management features                          | AMPI. Assistant Manager Power intelligent   |              |           |              |
| Control   | Algorithm adaptive / predictive control.  |              |           |              |
| Home automation devices                             | Smart Socket  |              |           |              |
| Energy Meter  | Energy Meter (Bidirectional high-resolution counter)  |              |           |              |
| <b>Battery Module</b>                               |   |              |           |              |
| Nominal energy storage capacity                     | 3 kWh   |              | 6 kWh     |              |
| Maximum depth of discharge (DoD)                    | 95%   |              |           |              |
| Battery type  | Li-ion  |              |           |              |
| Rated Battery voltage                               | 51.8 V  |              |           |              |
| Rated Operating voltage                             | 43 - 58.8 V   |              |           |              |
| Cycle life (95 % DoD, 25 °C, / 77° F)               | > 6.000   |              |           |              |
| Calender life (95 % DoD, 25 °C, / 77° F)            | > 15 years  |              |           |              |
| <b>Power electronics (AC Input / Output)</b>        |   |              |           |              |
| Rated power   | 3 kW  |              |           |              |
| Power (25 °C) 30 min, 2 min                         | 3500 / 3900 W   |              |           |              |
| Rated voltage                                       | 230 V   |              |           |              |
| Rated frequency                                     | 50 / 60 Hz  |              |           |              |
| Rated current                                       | 13 A  |              |           |              |
| <b>PV Input (DC)</b>                                |   |              |           |              |
| PV array max. power                                 | -   | 6,5 kWp      | -         | 6,5 kWp      |
| Voltage range MPP                                   | -   | 330 - 450 V  | -         | 330 - 450 V  |
| Voltage range                                       | -   | 300 - 550 V  | -         | 300 - 550 V  |
| Maximum current Inputs                              | -   | 20 A         | -         | 20 A         |
| Inputs  | -   | 2            | -         | 2            |
| MPPT  | -   | 1            | -         | 1            |
| <b>Compliance</b>                                   |   |              |           |              |
| Safety Battery cells                                | IEC 62133   |              |           |              |
| Safety Battery Module                               | CE / IEC 62619  |              |           |              |
| Safety Transport                                    | UN 38.3   |              |           |              |
| Power electronics                                   | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-12, EN 61000-3-11, EN 62109-1, EN 62109-2, IEC62103, EN 50178, FCC Part 15, AS 3100, RD1699/2011, DIN V VDE V 0126-1-1, EN 50438, CEI 0-21, VDE-AR-N 4105:2011-08, G59/2, G83/2(7), AS4777.2, AS4777.3, IEC 62116, IEC 61727, UNE 206007-1 |              |           |              |

\* Measures and weight are likely to be modified by the company.