

## e - PU10 Specifications

|   | SYSTEM CONFIGUR  | ATION                             |                              |
|---|--|-----------------------------------|------------------------------|
| Configuration                               | e-PU10 200/400   | e-PU10 300/600                    | e-PU10 360/800               |
|   | SYSTEM PERFORM   |                                   |                              |
| Rated power                                 | 360 kVA (200 kW)   | 360 kVA (300 kW)                  | 360 kVA (360 kW)             |
| Rated total energy capacity                 | 400 kWh  | 600 kWh                           | 800 kWh                      |
|   |  | 530 kWh*(1)                       | 720 kWh*(1)                  |
| Rated netto AC energy output  Rated current | 360 kWh*(1)  | 220 KWII . (T)                    | 720 KWII (1)                 |
| Voltage                                     | 400/230* +/- 10%   |                                   |                              |
| Frequency                                   | 50 Hz +/- 5%   |                                   |                              |
| Charge/discharge efficiency *(4)            | >92%   |                                   |                              |
|   | Heat pump / Liquid cooled  |                                   |                              |
| Cooling/heating                             | 360 kVA + 553 kVA Feedthrough = 913 kVA Output (1200A) *(2)  |                                   |                              |
| AC Power max output; AC Power input minimum | <u> </u>   | kva Output (1200A) *(2)           |                              |
| AC Power Input minimum                      | 32 A   | <u> </u>                          |                              |
| CONNECTIONS                                 |  |                                   |                              |
| AC-in                                       | 2 Sets Powerlock 400 A (PE, L1,L2,L3,N)  |                                   |                              |
| AC-in rated current                         | 700 A  |                                   |                              |
| AC-out                                      | 2 Sets Powerlock (PE, L1,L2,L3,N*), CEE 32 A/63 A *(2)   |                                   |                              |
| AC-out rated current                        | 1200 A *(2)  |                                   |                              |
| Stand-by supply                             | CEE 32 A   |                                   |                              |
| Grid supported                              | TN-S, TN-C, IT   | u FC                              |                              |
| BATTERY MODULES                             |  |                                   |                              |
| Chemistry                                   | LiFePO4  |                                   |                              |
| Thermal Mangement                           | Liquid cooled  |                                   |                              |
| Expected life time (65% SOH)                | >10 years  |                                   |                              |
|   | SYSTEM DATA  | 4                                 |                              |
| Dimensions                                  | 2991 x 2438 x 2591 mm 10ft ISO   |                                   |                              |
| Weight                                      | 7000 ± <b>250</b> kg   | 8250 ± 250 kg                     | 9500 ± 250 kg                |
| Operational temperature                     | -20 / +40 °C (>30 °C de-rating)  |                                   |                              |
| System consumption                          | De-energized 150W / Energized 2.8 kW   |                                   |                              |
| Noise level                                 | Appr.68 dBA @ 1m   |                                   |                              |
| IP rating container                         | IP55   |                                   |                              |
| Altitude                                    | 3000 m, derating above 1000m   |                                   |                              |
|   | SYSTEM MODI  | ES                                |                              |
| Mode: Grid forming                          | 400 V or 230 V AC network  |                                   |                              |
| Mode: Grid following                        | Parallel to main grid  |                                   |                              |
| Mode: Peakshaving over input                | Automatic mains failure with back synchronization, minimum 32 A with up to 700% stepload *(3)                            |                                   |                              |
| Mode: Peakshaving (external measurement)    | With external measurement point up to 100 m from e-PU10 *(3)   |                                   |                              |
| Mode: Back-up (AMF)                         | Seamless shifting from grid following to microgrid, by controlling AC-in *(3)  |                                   |                              |
| Mode: Smart generator link                  | Advanced generator control (Fixed power, Droop, Isochronous) over AC-In *(3)   |                                   |                              |
| Mode: Parallel operation                    | Coupling of multiple systems in microgrid through drooping   |                                   |                              |
|   | Peakshaving over input with start/stop for external genset, Automatic mains failure with back synchronization            |                                   |                              |
| Mode: Load sharing mode                     | minimum 32 A with up to 700% stepload *(3)   |                                   |                              |
| Load balancing                              | Peakshaving external measurement po  |                                   | or external genset *(3)      |
| COMMUNICATION & LOGISTIC                    |  |                                   |                              |
| Interface                                   | Touch HMI, Online portal   |                                   |                              |
| Protocols (option)                          | Modbus TCP/IP, Profinet (for external  | controller)                       |                              |
| Remote monitoring/control                   | IOT Platform VDL PowerNet *(2)   |                                   |                              |
| External communication                      | 4G, RJ45 Ethernet  |                                   |                              |
| Data logging                                | Realtime 100 ms, Historical 1 / 15 Min   |                                   |                              |
| Transportation                              | Forklift pockets, Twistlocks corner blo  | cks at bottom                     |                              |
|   | PROTECTION & SA  | AFETY                             |                              |
| Electrical system                           | Short circuit, Overcurrent protection, Residual current monitoring, Insulation monitoring (only in IT), Surge protection |                                   |                              |
| Fire detection                              | Smoke detection, CO detection  |                                   |                              |
| System monitoring                           | Advanced system monitoring, Battery cell, Inverter stack, Cooling system, Enclosure, Connection panel                    |                                   |                              |
|   | CERTIFICATIONS & STANDARDS   |                                   |                              |
| System                                      | PGS37-1, IEC62933-5-2  |                                   |                              |
| Battery modules                             | UN38.3 , EC62619, NEN4288, UL9540  | ^                                 |                              |
| EU directives                               | CE, Low Voltage Directive 2014/35/EU   |                                   | Rattery Regulation 2023/1542 |
| LO directives                               | ot, tow voitage birective 2014/55/EC   | , LINE DIRECTIVE 2014/30/10, EU D | actery Regulation 2023/1342  |

- Ambient temperature 23°C, Power output 300 kW
- Optionally available
  Operation mode only available in combination with e-PU10 option packages
  Auxiliary power consumption not included



