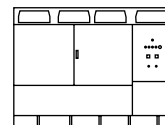


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**Modularity.**  
**Easy maintenance.**  
**Advanced grid support.**  
**Compatible with all battery technologies.**





Preliminary

720 V

| FRAME                      | 2                                              | 3                                                                                                    | 4       |
|----------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------|---------|
| REFERENCES                 | FP2575K                                        | FP3865K                                                                                              | FP5150K |
| AC                         | AC Output Power (kVA/kW) @35 °C <sup>[1]</sup> | 2575                                                                                                 | 3865    |
|                            | AC Output Power (kVA/kW) @40 °C <sup>[1]</sup> | 2470                                                                                                 | 3705    |
|                            | AC Output Power (kVA/kW) @50 °C <sup>[1]</sup> | 2260                                                                                                 | 3390    |
|                            | Max. AC Output Current (A) @35 °C              | 2065                                                                                                 | 3097    |
|                            | Operating Grid Voltage (kV)                    | 720 V ±10%                                                                                           |         |
|                            | Operating Grid Frequency (Hz)                  | 50 / 60 Hz                                                                                           |         |
|                            | Current Harmonic Distortion (THDi)             | <3% per IEEE 519                                                                                     |         |
|                            | Power Factor (CosPhi) <sup>[2]</sup>           | 0.5 leading ... 0.5 lagging                                                                          |         |
|                            | Reactive Power Compensation                    | Four quadrant operation                                                                              |         |
|                            | DC Voltage Range Full Power <sup>[3]</sup>     | 1019 V – 1500 V                                                                                      |         |
| DC                         | Maximum DC Voltage                             | 1500 V                                                                                               |         |
|                            | DC Voltage Ripple                              | <3%                                                                                                  |         |
|                            | Max. DC Continuous Current (A)                 | 2579                                                                                                 | 3868    |
|                            | Max. DC Short Circuit Current (kA)             | 500 kA with a time constant of 1 ms                                                                  |         |
|                            | Battery Technology                             | All type of batteries (BMS required)                                                                 |         |
| EFFICIENCY & AUX. SUPPLY   | Efficiency (Max) (η)                           | 98.84%                                                                                               | 98.87%  |
|                            | CEC (η)                                        | 98.34%                                                                                               | 98.49%  |
| CABINET                    | Dimensions [WxDxH] (ft)                        | 9.8 x 6.5 x 7.5                                                                                      |         |
|                            | Dimensions [WxDxH] (m)                         | 3.0 x 2.0 x 2.3                                                                                      |         |
|                            | Weight (lbs)                                   | 8600                                                                                                 | 9700    |
|                            | Weight (kg)                                    | 3900                                                                                                 | 4400    |
|                            | Type of Ventilation                            | Forced air cooling                                                                                   |         |
| ENVIRONMENT                | Degree of Protection                           | NEMA 3R / IP55                                                                                       |         |
|                            | Operating Temperature Range <sup>[4]</sup>     | From -25 °C to +60 °C, >35 °C power derating                                                         |         |
|                            | Operating Relative Humidity Range              | From 4% to 100% non-condensing                                                                       |         |
|                            | Storage Temperature Range                      | From -40 °C to +60 °C                                                                                |         |
|                            | Max. Altitude (above sea level) <sup>[5]</sup> | 2000 m / >2000 m power derating (max. 4000 m)                                                        |         |
| CONTROL INTERFACE          | Communication Protocol                         | Modbus TCP                                                                                           |         |
|                            | Power Plant Controller                         | Optional                                                                                             |         |
|                            | Keyed ON/OFF Switch                            | Standard                                                                                             |         |
| PROTECTIONS                | Ground Fault Protection                        | Insulation monitoring device                                                                         |         |
|                            | Humidity Control                               | Active heating                                                                                       |         |
|                            | General AC Protection & Disconnection          | Circuit breaker                                                                                      |         |
|                            | General DC Protection & Disconnection          | High-speed fuses, Motorized DC disconnect switches <sup>[6]</sup>                                    |         |
|                            | Overvoltage Protection                         | Type 2 for AC and Type 1+2 for DC                                                                    |         |
| CERTIFICATIONS & STANDARDS | Safety                                         | UL 1741 / CSA 22.2 No.107.1-16 / IEC 62116 / IEC 62109-1 / IEC 62109-2 / IEC 62477-1                 |         |
|                            | Installation                                   | NEC 2023                                                                                             |         |
|                            | Utility Interconnect <sup>[7]</sup>            | UL 1741 SA & SB / IEEE 1547.1 / IEC 62116 / G99 / VDE 4110-4120-4130 / CEI 0-16 / NTS 2.1 / EN 50549 |         |

## NOTES

- [1] Values at 1.00-Vac nom and CosPhi=1.  
Consult Power Electronics for derating curves and overload capability in grid forming mode.
- [2] Consult P-Q charts available:  $Q(kVar) = \sqrt{(S(kVA))^2 - P(kW)^2}$ .
- [3] Consult Power Electronics for derating curves. In the event of overvoltage in the grid, the minimum DC voltage will vary proportionally with the AC voltage.
- [4] Optional available for temperatures down to -35 °C.
- [5] Consult Power Electronics for altitudes above 1000 m.
- [6] Battery short circuit disconnection must be done on the battery side.
- [7] Consult Power Electronics for other applicable standards / grid codes.