# TECHNICAL CHARACTERISTICS HEMK 660V

| | | FRAME 1 | FRAME 2 |
|---|---|---|---|
| **REFERENCE** | | **FS2340K** | **FS3510K** |
| **OUTPUT** | AC Output Power(kVA/kW) @50°C [1] | 2340 | 3510 |
| | AC Output Power(kVA/kW) @40°C [1] | 2420 | 3630 |
| | Max. AC Output Current (A) @40°C | 2117 | 3175 |
| | Operating Grid Voltage(VAC) [2] | 660V ±10% | |
| | Operating Grid Frequency(Hz) | 50Hz/60Hz | |
| | Current Harmonic Distortion (THDi) | < 3% per IEEE519 | |
| | Power Factor (cosine phi) [3] | 0.5 leading … 0.5 lagging adjustable / Reactive Power injection at night | |
| **INPUT** | MPPt @full power (VDC) | 934V-1310V | |
| | Maximum DC voltage | 1500V | |
| | Number of PV inputs [2] | Up to 36 | |
| | Number of Freemaq DC/DC inputs [4] | Up to 6 | |
| | Max. DC continuous current (A) [4] | 2645 | 3970 |
| | Max. DC short circuit current (A) [4] | 4000 | 6000 |
| **EFFICIENCY & AUXILIARY SUPPLY** | Efficiency (Max) (η) | 98.8% (preliminary) | 98.9% (preliminary) |
| | Euroeta (η) | 98.5% (preliminary) | 98.6% (preliminary) |
| | Max. Power Consumption (KVA) | 8 | 10 |
| **CABINET** | Dimensions [WxDxH] (ft) | 12 x 7 x 7 | |
| | Dimensions [WxDxH] (m) | 3.7 x 2.2 x 2.2 | |
| | Weight (lb) | 12125 | 12677 |
| | Weight (kg) | 5500 | 5750 |
| | Type of ventilation | Forced air cooling | |
| **ENVIRONMENT** | Degree of protection | NEMA 3R - IP54 | |
| | Permissible Ambient Temperature | -35°C to +60°C / >50°C Active Power derating | |
| | Relative Humidity | 4% to 100% non condensing | |
| | Max. Altitude (above sea level) | 2000m; >2000m power derating (Max. 4000m) | |
| | Noise level [5] | < 79 dBA | |
| **CONTROL INTERFACE** | Interface | Graphic Display | |
| | Communication protocol | Modbus TCP | |
| | Plant Controller Communication | Optional | |
| | Keyed ON/OFF switch | Standard | |
| **PROTECTIONS** | Ground Fault Protection | GFDI and Isolation monitoring device | |
| | General AC Protection | Circuit Breaker | |
| | General DC Protection | Fuses | |
| | Overvoltage Protection | AC, DC Inverter and auxiliary supply type 2 | |
| **CERTIFICATIONS** | Safety | UL1741, CSA 22.2 No.107.1-16, UL62109-1, IEC62109-1, IEC62109-2 | |
| | Compliance | NEC 2017 / IEC | |
| | Utility interconnect | EEE 1547.1-2005 / UL1741SA-Feb. 2018 / IEC62116:2014 | |

[1] Values at 1.00•Vac nom and cos Φ= 1.
Consult Power Electronics for derating curves.
[2] Consult Power Electronics for other configurations.
[3] Consult P-Q charts available: $Q(kVAr)=\sqrt{(S(kVA)^2-P(kW)^2)}$.
[4] Consult Power Electronics for Freemaq DC/DC connection configurations.
[5] Readings taken 1 meter from the back of the unit.