



Encore 10K

| Input (PV) | |
|---|-----------------------------------|
| Max. Power [kW] | 13 |
| Max. DC Voltage [V] | 500 |
| MPPT Voltage Range [V] | 125-500 |
| Max. Input Current of Single MPPT [A] | 14/14 |
| MPPT Tracker/Strings | 4/1 |
| AC Output | |
| Rated Output Power [kVA] | 10 |
| Max. Output Current [A] | 47.8 |
| Grid Voltage/Range [V] | 220, 230, 240 |
| Frequency [Hz] | 50/60 |
| Displacement Power Factor | 0.8lagging-0.8leading |
| THDi [%] | <2 |
| Battery | |
| Battery Voltage Range [V] | 40-58 |
| Max. Charging Voltage [V] | 58 |
| Max. Charge/Discharge Current [A] | 210/210 |
| Battery Type | Lithium/Lead-acid |
| Communication Interface | CAN/RS485/WiFi/LAN/DRM |
| EPS Output | |
| Rated Power [kVA] | 10 |
| Rated Output Voltage [V] | 220, 230, 240 |
| Rated Output Current [A] | 47.8 |
| Rated Frequency [Hz] | 50/60 |
| Automatic Switching Time [ms] | <20 |
| THDv [%] | <2 |
| General Data | |
| Battery Charge/Discharge Efficiency [%] | 95.0 |
| DC Max. Efficiency [%] | ≥97.2 |
| Europe Efficiency [%] | ≥97.8 |
| MPPT Efficiency [%] | 99.9 |
| Ingress Protection | IP65 |
| Noise Level [dB] | <38 |
| Operating Temperature [°C] | -25°C to +60°C (derating at 45°C) |
| Cooling | Fan Cooling |
| Storage/Operation Relative Humidity | 0-95% (non-condensing) |
| Altitude [m] | <2 000 |

Notes to Specification Sheet

1. AC/DC Protection: The inverter includes both AC and DC protection however, the installer must still adhere to SANS regulations.
2. Surge Protection: DC Type II / AC Type II.
3. Over Voltage Category: DC Type III / AC Type III.
4. Integrated Protection: PV Input Lightning Protection, Anti-Islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current protection, Output Overcurrent Protection, Output Short Circuit Protection.
5. Wifi Gateway: The inverters are equipped with a WIFI gateway that uses the Solarman monitoring platform. (WIFI only, no Ethernet).

DISTRIBUTORS AND RESELLERS

Contact your nearest Accredited Freedom Won Distributor or Accredited EPCs for further sales and technical support.

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| | |
|------------------------------------|--|
| Dimensions - H x W x D [mm] | 760x460x225 |
| Crated Dimensions - H x W x D [mm] | 860x555x340 |
| Weight [kg] | 46 |
| Night-time Consumption [W] | <25 |
| Safety Compliance | |
| Safety Standard | IEC/EN 62109-1/-2, IEC/EN 62477-1 |
| EMC | IEC/EN 61000-6-1, IEC/EN 61000-6-3 |
| Certificates | South Africa NRS, IEC 62109-1/-2, IEC 61000-6-1, IEC 61000-6-3 |

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