



Encore 8K

Input (PV)	
Max. Power [kW]	12
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]	8
Max. Output Current [A]	38.3
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]	190/190
Battery Type	Lithium/Lead-acid
Communication Interface	CAN/RS485/WiFi/LAN/DRM
EPS Output	
Rated Power [kVA]	8
Rated Output Voltage [V]	220, 230, 240
Rated Output Current [A]	38.3
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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