



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 to +60°C (derating at 45°C)
Cooling	Fan Cooling
Storage/Operation Relative Humidity	0-95% (non-condensing)
Altitude [m]	<2 000
Dimensions - H x W x D [mm]	760x460x225
Crated Dimensions - H x W x D [mm]	TBC
Weight [kg]	41
Crated Weight [kg]	TBC
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