ENCORE THREE PHASE INVERTER RANGE

Range Overview Specification Sheet





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	Encore 12K	Encore 15K
Input (PV)		
Max. Power [kW]	18	22.5
Max. DC Voltage [V]	1000	
Max. Input Voltage [V]	700	
MPPT Voltage Range [V]	180~850	
Max. Input Current of Single MPPT [A]	13/13	
MPPT Tracker/Strings	2	
Max. Number/Max. Input Strings Number	1/1	
AC Output		
Rated Output Power [kVA]	12	15
Max. Output Current [A]	19.1	23.8
Grid Voltage/Range [V]	230/176~270	
Frequency [Hz]	50/60	
THDi[%]	<3	
Battery		
Battery Voltage Range [V]	125~600	
Battery Working Voltage Range [V]	150~550	
Max. Charge/Discharge Current [A]	50	
Battery Type	Lithium/Lead-acid	
Communication Interface	LCD;APP / RS485, CAN / WIFI / GPRS / 4G	
EPS Output		
Rated Power [kVA]	12	15
Nominal Output Voltage [V]	400, 3W+N+PE	
Rated Output Current [A]	19.1	23.8
Rated Frequency [Hz]	50/60	

DISTRIBUTORS AND RESELLERS

THDv[%]

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

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Encore 12K

IP65

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Encore 15K

	General Data		
-	Battery Charge/Discharge Efficiency [%]	97.6	97.8
	DC Max. Efficiency [%]	98.2	97.6
	Europe Efficiency [%]	97.5	97.8
	MPPT Efficiency [%]	99.9	

Noise Level [dB]	<25
Operating Temperature [°C]	-25 to +60°C
Cooling	Natural
Storage/Operation Relative Humidity	0~100% (non-condensing)
Altitude [m]	4 000 (derating above 2 000)
Dimensions - H x W x D [mm]	566x596x220
Crated Dimensions - H x W x D [mm]	660x720x330
Weight [kg]	32

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Safety Standard	IEC/EN 62109-1:2010, IEC/EN 62109-2:201	
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011	
Certificates	South Africa NRS, IEC 62109-1/-2, IEC 61000-6-1, IEC 61000-6-3	

Notes to Specification Sheet

Night-time consumption [W] Safety Compliance

Ingress Protection

- 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).

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Plug into The Current Future