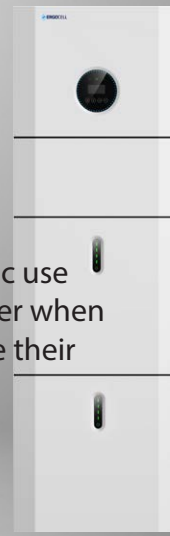




ERGOCELL

ERGOCELL hybrid inverter with CATL LFP battery is a DC Coupled solution for domestic use that allows renewable solar PV energy to be stored during high production for use later when production is lower but demand is at it's highest. This allows a homeowner to increase their self consumption of solar PV energy enabling better use of clean power.

powered by

Model	EC 5000
PV terminal	
Vmax. PV	580Vd.c.
Rate Voltage	400Vd.c.
MPPT Voltage Range	120~550Vd.c.
MPPT Voltage Range (full load)	230 ~ 550Vd.c.
MPPT Tracker number	2
Max. continuous PV input current per tracker	13Ad.c.
Isc PV per tracker	16Ad.c.
Max. continuous PV input power	6500W
Battery terminal	
Battery type	Lithium or lead-acid batteries
Voltage range	40~60Vd.c.
Rated voltage	48Vd.c.
Maximum charge/discharge current	100Ad.c./100Ad.c.
Maximum charge/discharge power	100Ad.c./100Ad.c.
Grid terminal parameter	
Rated voltage	230Va.c.
Rated frequency	50Hz
Rated input Current	31Aa.c.
Maximum continuous input current	32Aa.c.
Maximum continuous input power	7360VA
Rated output Current	22Aa.c.
Maximum continuous output current	22Aa.c.
Power factor (Cos phi), adjustable	0.9 leading ~ 0.9 lagging
Maximum continuous output power	5000VA
Back up load terminal parameter	
Rated voltage	230Va.c.
Rated frequency	50Hz
Rated output Current	20Aa.c.
Maximum continuous output current	20Aa.c.
Rated continuous output power	4600W
Maximum output apparent power	5000VA
General	
Dimensions (WxHxD)mm	540*640*240
Weight (kg)	30

ERGOCELL uses battery modules from CATL, the largest battery manufacturer in the world with proven reliability and quality. CATL batteries are used by all the leading electric vehicle manufacturers.

Battery Specifications	EC B5	EC B10
Energy Capacity	5.12kWh	10.24kWh
Battery type	CATL LFP (LiFePO4)	
Depth of Discharge (DoD)	90%	
Rated voltage	51.2V	
Operating Voltage Range	44.8~57.6V	
Internal Resistance	≤ 20 mΩ	
Number of cycles	10000cycles	
Operation		
Max. Charging Current	50A (0.5C)	100 A (0.5C)
Max. Discharging Current	80 A (0.8C)	100 A (0.5C)
Operating temperature range	0°~+55°(Charging)/-20°~+55°(DisCharging)	
Storage temperature range	-30°~+60°	
Humidity	0% ~ 90%	
BMS		
Modules Connection	max. 4 EC B5 batteries in parallel (or two EC B10)	
Power Consumption	<2 W	
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement	
Communication	CAN and RS-485 compatible	
Ventilation type	Passive and Active Cooling	
Physical		
Weight (Kg)	60	120
Dimension (W×H×D)mm	540*490*240	540*940*240
IP Protection	IP65	
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
Certificate		
Safety(Cell)	IEC 62619, UL 1973, UN 38.3	
Max. Conversion Efficiency (From Battery)	94.0%	
Max. Conversion Efficiency (From PV)	97.6%	
Euro Efficiency	97.0%	
MPPT Efficiency	99.5%	



100% Nickel
and Cobalt Free