



The BrickPower BRE-I-5-14K is a highly integrated all-in-one residential solar and battery storage system powered by a 5kW hybrid inverter and 14kWh CATL Lithium-ion battery. The whole unit is made of two separate compartments with the hybrid inverter box on the top and the battery box at the bottom. Four CATL high performance and long life LFP batteries are fixed inside the battery box that provides long-lasting and safe energy to the homes.

BrickPower's EMS provides 24x7 real-time monitoring and alerting through built-in system protection mechanisms and remote diagnostics. Its cloud-based application demonstrates real-time performance and savings to end-users. It also integrates the VPP function that helps to form a healthy grid.

Solar DC Input

Max. PV Input Power	5000W
Max. PV Input Voltage	580V
Min. Inverter Operating DC Voltage	130V
Min. Inverter Start Voltage	75V
MPPT Voltage Range	100-550V
Max. Input Current	12A
No. of MPPT	2

Grid AC Input and Output

Nominal AC Output Power	5000W
Max. AC Output Apparent Power	5000VA
Max. AC Output Current	21.7A
Nominal Off-grid Power	2500W
Nominal Output Voltage	230V
Nominal Output Current	21.7A
Nominal Output Frequency	50/60Hz
Output Power Factor	0.8leading - 0.8lagging
Output THDi (@Nominal output)	<3%

Communication Interface

Communication	4G/WIFI/Ethernet
Remote access	APP/Website

Warranty

Warranty - Inverter	5 years
Warranty – Battery Performance	7000 cycles or 10 years

Battery Specification

Max Charge and Discharge Power	3000W
Nominal Battery Voltage	51.2V
Battery DC Voltage Range	40-60V
Battery Capacity	13.88KWh
Usable Capacity	12.49kWh
Depth of Discharge	90%
Number of Battery Module	4
Module Capacity	3.5KWh
Cell Type	LFP
Cell Vendor	CATL
Cooling	forced fan cooling
Protection	BMS inside

Mechanical Specification

Dimension (W×H×D)	620×1750×210 mm
Battery Module Weight	25kg
Total Weight	150kg

Certification & Standard

Grid Regulation	AS 4777.2
	IEC 62109-1
Safety Regulation	IEC 62109-2
	AS 62040-1
Battery Regulation	AS IEC 62619
EMC	AS/NZS 61000.6.3
	AS/NZS 61000.6.4