ElektroBank 14

Our all-in-one solar-battery with solar PV inverter product comes with all the bells and whistles of Tier-1 products at a lower cost per kWh than Tier-2 products.

Compact All-in-one Design

Sleek all-in-one design avoids multiple boxes on your wall, enhances aesthetics, and cuts installation costs.

Integrated Solar PV Inverter

Eliminates the need for a separate inverter, prevents wasted solar due to clipping, and avoids solar export penalties.

Integrated EV Charging Control

Automatically optimises EV charging and supports 3rd party chargers, most don't and it can drain your battery.

Integrated Water Heating Control

Automatically optimises water heating to lower costs and maximise savings if you're on a wholesale electricity plan.

Long Duration Emergency Backup

With a 14 kWh capacity, the ElektroBank 14 offers one of the longest backups in the industry during grid outages.

Questions? Reach out to our friendly sales team

02 8745 8821
sales@empowerenergy.com.au

Local Warranty Support

Industry-leading 10-year or 45 MWh warranty, with national support from our NSW headquarters.

Designed for Australian Conditions

Reliable in any Australian climate, from -20°C to 50°C, with an industry-leading corrosion resistant enclosure.

Software so Intelligent it's Patented

Patented AI optimizes your battery, solar, EV charger, and water heater for maximum savings and efficiency.

Wholesale and Virtual Power Plant (VPP) Plan Ready

Enjoy industry leading payback periods by going on to a wholesale passthrough energy plan or VPP.

Integrated Customer App

Stay in control with an easy-to-use app to track savings and manage your solar, battery, water heater, and EV charger.

PV Input	
Vmax PV	430V
Max Continuous Current / Isc PV	15A / 19 A
PV MPPT Starting Voltage	150V (then works down to 100V for hysteresis)
PV Maximum Power	2 x 4 kW MPPT
PV MPPT Operating Range	100V – 430V
Inverter Efficiency (PV to grid)	96%

Battery	
Voltage (nominal)	154V
Maximum Continuous Current Input / Output	32A
Maximum Continuous Power	5 kW
Battery Type	Lithium Ion Phosphate (LiFePO4)
Battery Total Energy	15.4 kWh
Battery Usable Capacity	13.9 kWh at 90% Depth of Discharge
Battery Round Trip Efficiency from Grid	Approx. 91%
Battery Lifetime Warranty	70% total capacity remaining after 10 years or 45 MWh throughput (whichever comes first)

AC Input / Output Ratings (Grid Port)	
Grid Nominal Frequency	50Hz
Voltage (nominal)	230V single phase
Maximum Continuous Current Input/Output	41.7Arms / 21.7Arms
Inrush Current	50Arms for 100ms
Active/Apparent Power Continuous	9.6 kW / 5 kW
Apparent Power Continuous	9.6 kVA / 5 kVA
Power Factor	+/-0.6 adjustable
Maximum Input/Output Overcurrent Protection	40A
Maximum Output Fault Current	30A

Designed in Australia, Manufactured in Malaysia

System	
Residual Current Monitoring	Integral for grid port (backup port requires external RCD)
Inverter Topology	Non-isolated
Supporting Demand Response Modes	DRMO
Certification Marks	AS4777.2.2020, IEC62109-1, IEC62109-2, AS62040.1, AS61000.6.3:2012, IEC62619
Communications	WiFi, LAN (RJ-45), 3G/4G

Mechanical & Environmental	
Maximum Dimensions (H / W / D)	1200 mm / 900 mm / 225 mm
Ambient Operating Temperature Range*	-20°C to +50°C
Ingress Protection (IP) Rating	IP 66
Weight	180 kg
Environmental Category	Outdoor
Wet Location Classification	Wet
Maximum Altitude	2000m
Battery Storage Conditions	0°C – 25°C (max 95% RH non-condensing) for a maximum of 6 months from their production date. -20°C and 50°C (max 95% RH non-condensing) for a maximum of 3 months from their production date
Enclosure Storage Conditions	-20°C and 50°C, max 95% RH non-condensing

AC Output Ratings (Backup Port)	
Frequency	50Hz
Voltage (nominal)	230V single phase
Maximum Continuous Current	20Arms
Inrush Current	90A max
Active / Apparent Power Continuous**	3.5 kW / 3.5 kVA
Active / Apparent Power Overload	4.6 kW / 4.6 kVA for 1 hour
Power Factor	+/- 0.6

* battery will automatically de-rate power according to internal temperatures. Maximum ambient temperature for continuous 5kW charging/discharging (unrealistic use case) with no PV is ~40°C. Minimum temperature with no de-rating is ~4°C
** Empower only supports installations using an external contactor, which allows for 4.6 kW continuous from the backup port. The 3.5 kW mentioned in the table assumes no external contactor, which Empower no longer supports.