

ElektroBank 14

The 14 kWh Hybrid Inverter, Load Control and Lithium Battery Device



Intelligent System

Max self-consumption
Time-of-use
Maximum demand tariffs



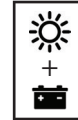
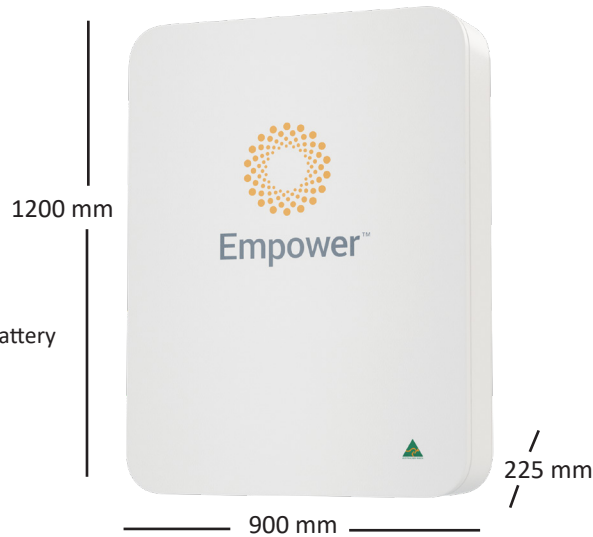
Long Lifetime

14 kWh Lithium Phosphate battery
10-year, 45 MWh warranty
Designed for Australian heat
Supports self-consumption



VPP Ready

Delivers network, retailer and market operator services



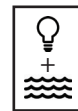
Space & Cost Saving

All-in-one IP 66 design
reduces wall space needs,
installation time and cost



Advanced Tools

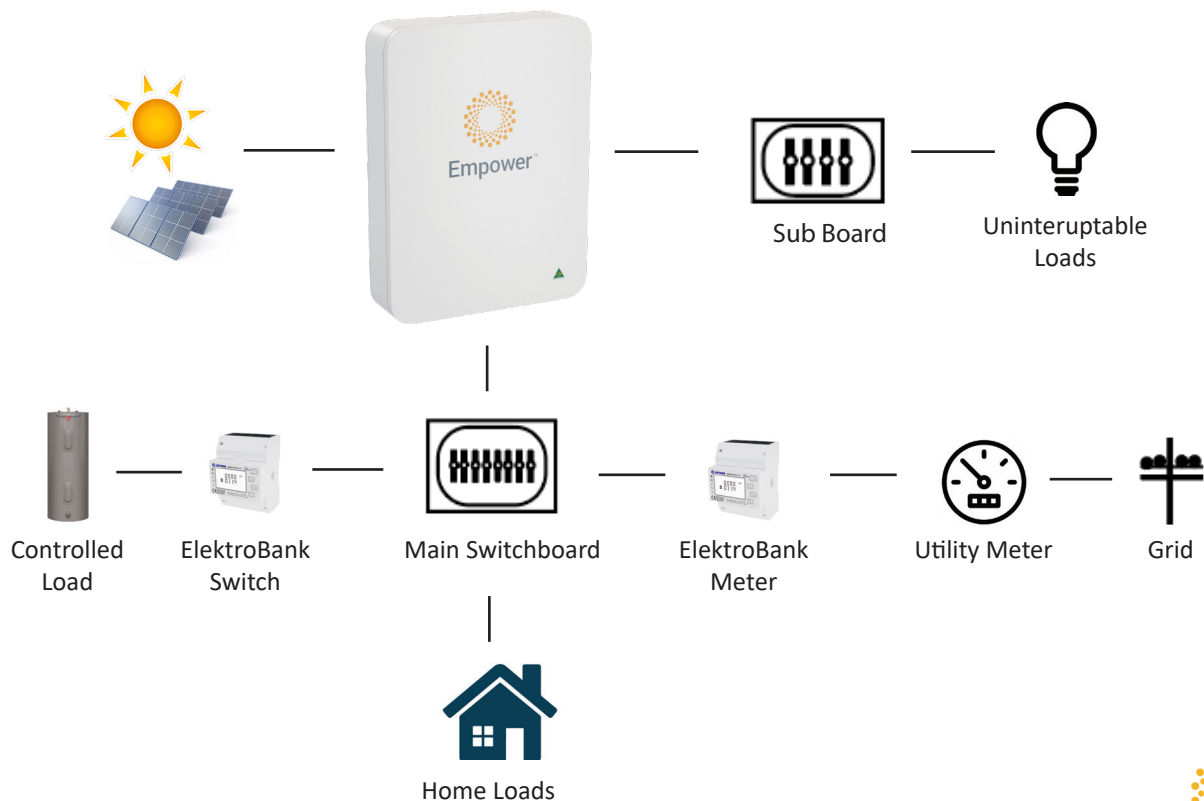
Monitor your use
Programmable
* tablet and phone not included



Backup and Control

5 kW built-in backup and
5 kW load control circuits

Typical Configuration



Empower™

PV Input	
Vmax PV	430V
Max Continuous Current	15A
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
Isc PV	15A

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
Real Power Continuous Input / Output	9.6 kW / 5kW
Apparent Power Continuous Input / Output	9.6 kVA / 5kVA
Power Factor	+/-0.8 adjustable
Maximum Input/Output Overcurrent Protection	40A
Maximum Output Fault Current	30A

System	
Residual Current Monitoring	Integral for grid port (backup port requires external RCD)
Inverter Topology	Non-isolated
Supporting Demand Response Modes	DRM0
Certification Marks	AS4777.2.2015, 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
Storage Conditions	-10°C to 30°C, max 95% RH non-condensing. SOC = 30%

AC Output Ratings (Backup Port)	
Frequency	50Hz
Voltage (nominal)	20V single phase
Maximum Continuous Current	20A
Inrush Current	90A max
Active/Apparent Power Continuous	3.5 kW / 3.5kVA
Active / Apparent Power Overload	4.6 kW / 4.6kVA for 1 hour
Power Factor	+/-1.0

* 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

