

# ElektroBank 14

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



### Intelligent System

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



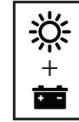
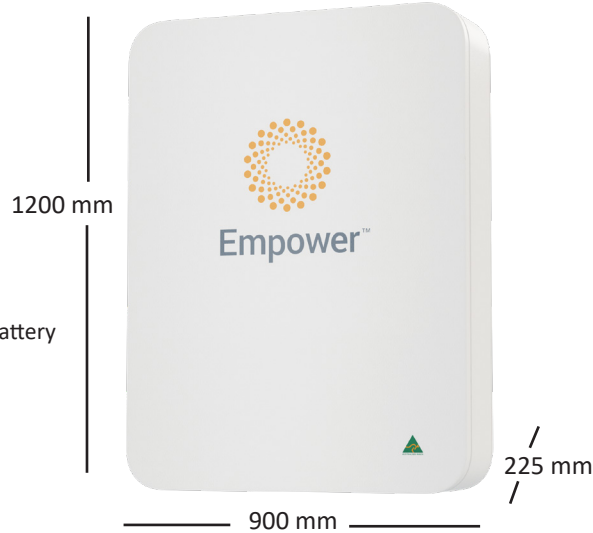
### Long Lifetime

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



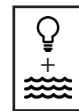
### Space & Cost Saving

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



### Advanced Tools

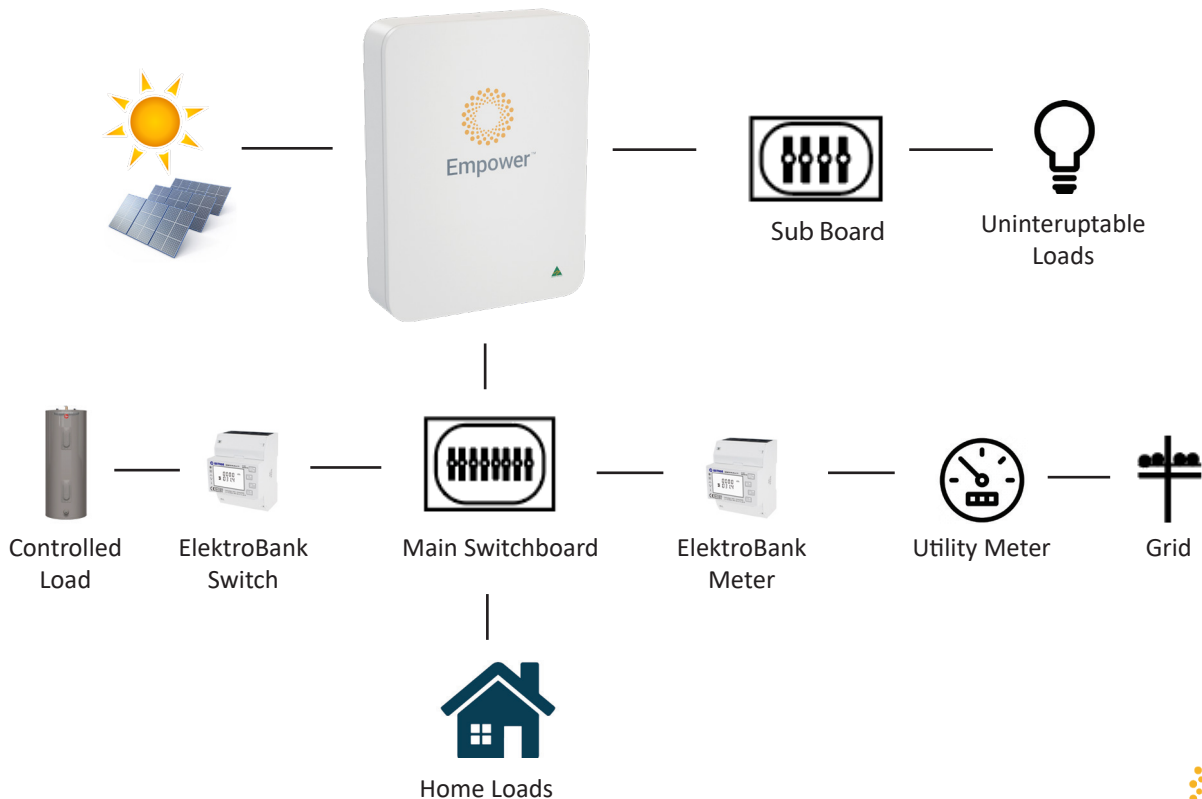
Monitor your use  
Programmable  
\* tablet and phone not included



### Backup and Control

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

## Typical Configuration



Empower™

PV Input	
Vmax PV	600V
Max Continuous Current	15A
PV MPPT Starting Voltage	100V (then works down to 50V for hysteresis)
PV Maximum Power	2 x 4 kW MPPT
PV MPPT Operating Range	50V – 430V
Isc PV	15A
Max Panel Size	5 kW per MPPT input (10 kW total)

Mechanical & Environmental	
Maximum Dimensions (H / W / D)	1200 mm / 900 mm / 225 mm
Ambient Operating Temperature Range*	-10°C to +50°C
Ingress Protection (IP) Rating	IP 66
Weight	165 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 Input / Output Ratings	
Grid Frequency	50Hz
Voltage (nominal)	240V single phase
Maximum Continuous Current	40A
Inrush Current	90A max
Real Power Continuous	9.6 kW
Apparent Power Continuous	9.6 kVA
Power Factor	+/-1.0 adjustable
Maximum Output Overcurrent Protection	40A
Maximum Output Fault Current	90A

System	
Residual Current Monitoring	Integral for grid port (backup port requires Type B 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
Communications	WiFi, LAN (RJ-45), 3G/4G

Battery	
Voltage (nominal)	154V
Maximum Continuous Current Input / Output	38A
Maximum Continuous Power	5 kW
Battery Type	Lithium Ion Phosphate (LiFePO4)
Battery Total Energy	15.4 kWh
Battery Usable Capacity	13.9 kWh
Battery Round Trip Efficiency from Grid	91%
Battery Lifetime Warranty	70% total capacity remaining after 10 years or 45 MWh throughput (whichever comes first)

AC Output Ratings (Backup Port)	
Frequency	50Hz
Voltage (nominal)	240V single phase
Maximum Continuous Current	19A
Inrush Current	90A max
Active Power	4.6 kW
Apparent Power	4.6 kVA
Power Factor	+/-1.0
Number of Phases	1
Maximum Output Overcurrent Protection	25A

\* battery will automatically de-rate power according to internal temperatures

