

# ElektroBank 7

The 7.7kWh Hybrid Inverter, Load Control and Lithium Battery Device



### Intelligent System

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



### High Cycle Life

7.7kWh Lithium battery  
10 year, 40MWh warranty  
2 cycles per day  
Supports self-consumption



### VPP Ready

Delivers network, retailer and market operator services



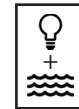
### Space & Cost Saving

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



### Advanced Tools

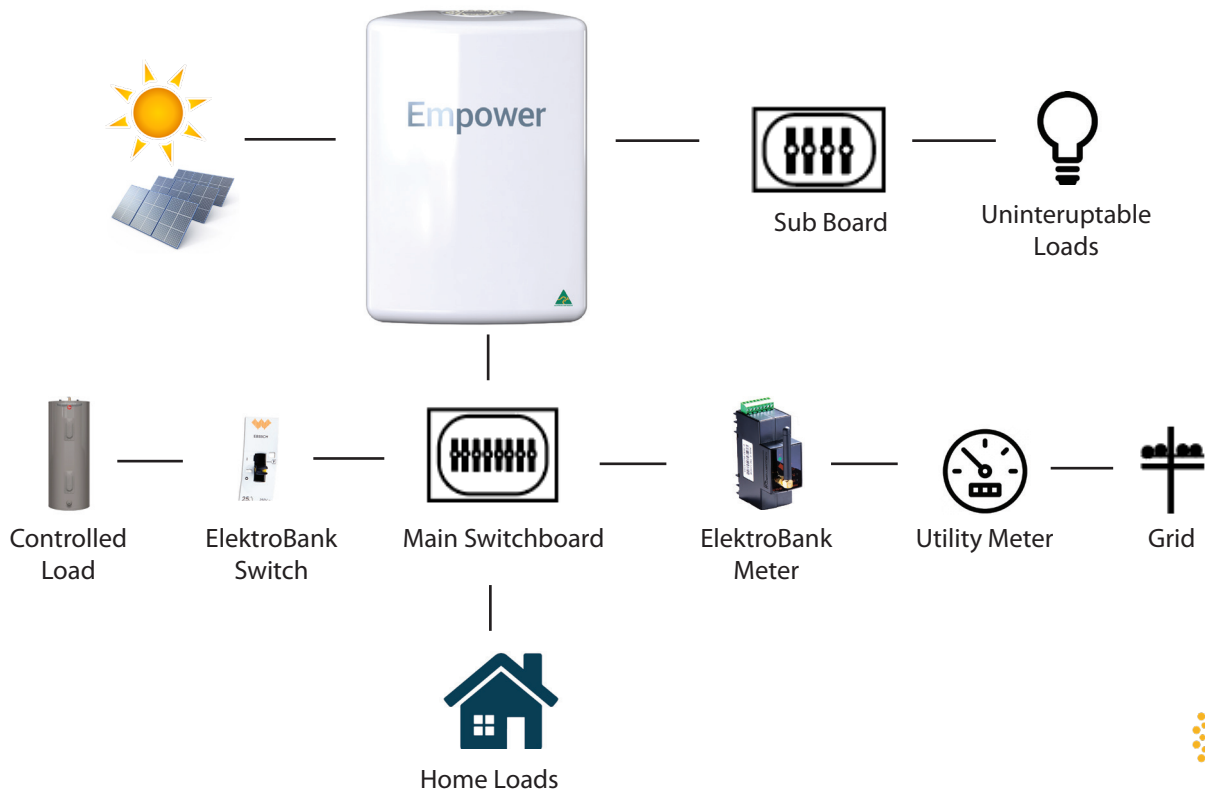
Monitor your use  
Programmable  
\* tablet and phone not included



### Backup and Control

5kW built-in backup and  
5kW 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 Operating Range	50V – 600V
PV MPPT Operating Range	50V – 430V
Isc PV	15A

Mechanical & Environmental	
Maximum Dimensions (H / W / D)	1022mm / 713mm / 435mm
Ambient Operating Temperature Range	-20 to 50C (power auto-derates above 40C)
Ingress Protection (IP) Rating	IP 66
Weight	112kg
Environmental Category	Outdoor
Wet Location Classification	Wet
Maximum Altitude	2000m
Storage Conditions	-10C to 30C, 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	9.6kW
Apparent Power Continuous	9.6kVA
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)	105V
Maximum Continuous Current Input / Output	50A
Maximum Continuous Power	5kW
Battery Type	NMC (Lithium-ion Nickel Manganese Cobalt Oxide)
Battery Total Energy	7.77kWh
Battery Usable Capacity	7kWh
Battery Round Trip Efficiency from Grid	89%

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