

SUNRISE HOME BATTERY

STORE YOUR EXCESS SOLAR POWER FOR USE AT NIGHT!

The SunRise Home Battery is an Australian-made outdoor-rated battery system that stores your excess solar electricity for use from sunset until sunrise.

- Use your own solar power at night and reduce your power bills. No more bill shock!
- Low entry price! Add more batteries in small steps as your needs change
- Back-Up Power: Includes back-up power capability in case of a grid power failure. No more blackouts!
- Retrofit to your existing solar system with ease or for use in a new Solar system.

SunRise Home Battery Advantages

HIGH QUALITY

Fully engineered, factory assembled and tested in Brisbane. Highest quality lithium-ion battery modules from LG used (RedEarth is one of two Australian LG-approved integrators) or the latest BYD LiFePo4

LOCAL FACTORY SUPPORT PROVIDED

Systems are built and tested in RedEarth's factory in Brisbane. Visitors welcome!

QUALIFIES FOR CURRENT GOVERNMENT GRANTS AND LOANS

Designed to meet current and future government support program requirements.

CHOICE OF BATTERY SIZE

Expandable from 0 to 32.5kWh capacity (more than two Tesla's worth!) A larger battery is especially valuable in areas with regular power outages. Can be installed with batteries to add later.

EASY TO INSTALL BATTERY SYSTEM (<3 HOURS)

All-in-one system - plug and play connection to PV panels and the grid. Place it on a concrete slab or mount on a wall using standard brackets. Place it outside, round the back with the hot water & aircons; no need to clutter the garage

REMOTE MONITORING

With an internet connection the system can be remotely monitored on your mobile device.

Optional remote monitoring service available from RedEarth

SAFETY

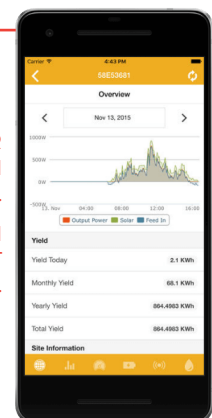
SunRise is designed so that the batteries are in the safest environment when installed. It is supplied pre-wired and fully tested in a secure enclosure.

WARRANTY & SUPPORT

SunRise Systems come with a 7 year system warranty & 10 years battery warranty. Refer to the SunRise Warranty Document for details. Support is available directly from our Brisbane factory.



SOLAR INPUT	Connect up to 6.65kW of Solar panels to two MPPT's
POWER OUTPUT	5.0kW
BACKUP POWER	3kVA (during grid outage) 5kVA with solar panels during the day
BATTERY OPTIONS	Up to 32.5kWh
DIMENSIONS	104H x 97W x 54D (cm)
WEIGHT (MAX.)	327kg (with 5 batteries)
BATTERY VOLTAGE	48Vdc nom.
ELECTRICAL CONNECTION	Hard wired via built-in EPS transfer switch
MONITORING	On mobile devices and PC (subject to network availability)



**MONITOR YOUR SYSTEM FROM ANYWHERE.
HAVE REDEARTH MONITOR IT FOR YOU.**

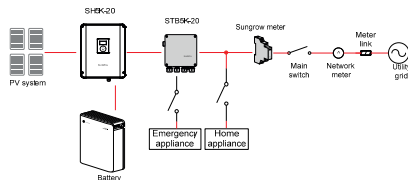
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TECHNICAL INFORMATION

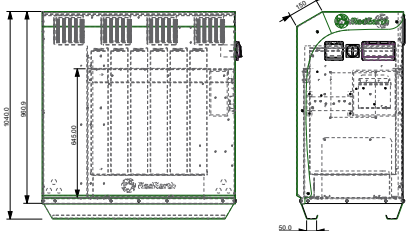
EASY INSTALLATION

RedEarth's Sunrise Battery System is an all-in-one energy storage solution that is pre-wired with all AC, DC and PV cables, switchgear, EPS contactor and batteries to make installation rapid and trouble free. No need for installers to mount a lot of equipment to the wall and wire it all up. Just run cables from the solar arrays and switchboard and connect to the pre-labelled terminals inside the SunRise Home Battery.

The SunRise arrives with the batteries in separate boxes so that are more easily carried to where the battery is being installed. There is no need for extensive site preparation as the SunRise system can be wall mounted.



REDEARTH OFFERS INSTALLERS REAL-TIME TECHNICAL SUPPORT DURING THEIR INSTALLATION AS WELL AS FACTORY TRAINING IN BRISBANE AND ONSITE TRAINING FOR REGULAR CUSTOMERS.



INVERTER/BATTERY CHARGER

OUTPUT AC POWER	
NOMINAL AC POWER OUT	4990W
MAX AC APPARENT POWER OUT TO GRID	5000VA
NOMINAL AC CURRENT	21.6A
MAX. AC OUTPUT CURRENT	21.7A
MAX. AC INPUT POWER	3000W
MAX. AC INPUT CURRENT (FOR BATTERY CHARGING)	13A
INPUT PV ARRAY	
MAX. RECOMMENDED DC POWER OF PV ARRAYS	6500W
MAX. DC VOLTAGE OF THE PV ARRAY	600 Vdc
MPPT VOLTAGE RANGE FOR NOMINAL POWER	240-520 Vdc
STARTUP VOLTAGE	125V
NO. OF MPPTS	2
SHORT CIRCUIT CURRENT ISC OF PV INPUT	24A (12A/12A)
MAX. INPUT CURRENT PER MPPT	21A (11A/11A)
PV STRINGS PER MPPT	1
MAX INVERTER BACKFEED CURRENT TO ARRAY	0A
OTHER	
OVER-VOLTAGE PROTECTION	III [Main], II [PV, Battery]
CERTIFICATION	AS/NZ4777.2, IEC62109-1/2
EPS (EMERGENCY POWER SUPPLY) AC POWER	
EPS RATED POWER (FROM BATTERY ONLY)	3000VA
EPS RATED POWER (WITH PV SUPPORT)	5000VA
CHANGEOVER TIME TO EPS WHEN OUTAGE OCCURS	3 sec
MAX. CHARGING CURRENT	65A
MAX. DISCHARGING CURRENT	65A

LG BATTERY MODULES

DIFFERENT CAPACITY MODULES OR BRANDS CANNOT BE MIXED		
PERFORMANCE		
NOMINAL CAPACITY (KWH)	3.3 kWh	6.5 kWh
USABLE CAPACITY (KWH) - DOD 80%	2.64 kWh	5.2 kWh
NOMINAL CAPACITY (AH)	63 Ah	126 Ah
CONTIN. CHARGE/DISCHARGE POWER PER MODULE		3.0 kW
MAX. CHARGE/DISCHARGE POWER PER MODULE		3.3 kW
MAX. CHARGE/DISCHARGE CURRENT PER MODULE		63 A
NOMINAL VOLTAGE		51.8 Vdc
SHORT CIRCUIT CURRENT PER MODULE		1.89 kA
LITHIUM-ION CHEMISTRY		NMC
OPERATING CONDITIONS		
OPERATING VOLTAGE		42-58.8 Vdc
MAX. FLOAT VOLTAGE		57.4 Vdc
OPTIMAL OPERATING TEMPERATURE (°C)		15-30 °C
AVAILABLE OPERATING TEMPERATURE (°C)		-10-45 °C
CERTIFICATION		UL1973, IEC62619
SCALABILITY		
MAX. CAPACITY (KWH) X5 LG BATTERY MODULES	16.5 kWh	32.5 kWh

BYD BATTERY MODULES

DIFFERENT CAPACITY MODULES OR BRANDS CANNOT BE MIXED		
PERFORMANCE		
NOMINAL CAPACITY (KWH)		2.56 kWh
USABLE CAPACITY (KWH) - DOD 100%		2.56 kWh
NOMINAL CAPACITY (AH)		50 Ah
CONTIN. CHARGE/DISCHARGE POWER PER MODULE		2.65 kW
MAX. CHARGE/DISCHARGE POWER PER MODULE		5.12 kW (30 sec)
MAX. CHARGE/DISCHARGE CURRENT PER MODULE		50 A
NOMINAL VOLTAGE		51.2 Vdc
LITHIUM-ION CHEMISTRY		LiFePO4
OPERATING CONDITIONS		
OPERATING VOLTAGE		40-56.4 Vdc
MAX. FLOAT VOLTAGE		57.4 Vdc
AVAILABLE OPERATING TEMPERATURE (°C)		-10-50 °C
CERTIFICATION		UL1642, IEC62619
SCALABILITY		
MAX. CAPACITY (KWH) X4 LG BATTERY MODULES		10.24 kWh

ENVIRONMENTAL RATINGS

POLLUTION DEGREE	PD3
WET LOCATIONS	Not Suitable
IP RATING	IP43
TEMPERATURE RATING	-20oC to + 40oC
RELATIVE HUMIDITY	100%
MAXIMUM ALTITUDE	2000m