



## 3-PH HYBRID BATTERY STORAGE & BACKUP SOLUTIONS SUNRISE

The RedEarth SunRise is a fully engineered & assembled Australian unit, designed for internal or external plug and play installation. The SunRise stores your excess power generated from your rooftop solar providing additional power even after the sun sets, and will power your home during blackouts\*. Already have solar panels?, we can work with that! We can retrofit to your existing system. The SunRise is also designed to be scalable, so start small and build a customised battery system ideal for your home.



### WARRANTY

- 5-year battery warranty
- 5-year SunRise warranty

### SunRise TECHNICAL SPECIFICATIONS:

Anti-islanding protection	Yes
Monitoring	PC & Mobile   Depending on internet availability
Internal Cooling (fans)	3 – 4 Fans   Passive and active cooling
Battery Sizing Options	9.6kWh – 16.8kWh**
Dimensions	1010H x 910W x 540D (mm)
Weight max	65 – 240 kgs (From 0 – 16.8 kWh of batteries)
Can upgrade enclosures & batteries	Yes - Up to 2 more enclosures to 48 kWh
Can Add secondary enclosure	Yes



\*Amount of power provided depends upon the number of batteries purchased, and the user's power consumption requirements.

\*\*Max 16.8kWh per SunRise enclosure (Max 7 batteries)

## LITHIUM MODULAR BATTERY DETAILS

### NOMINAL VOLTAGE DC

48v

Capacity(kWh)	2.40
Nominal Voltage(Vdc)	48
Nominal Capacity(AH)	50
Voltage Range(Vdc)	45~54
Depth of Discharge 80%	(10~90%)
Dimension(W*D*H,mm)	442*390*100
Communication	RS485/CAN
Weight(kg)	24
Operation Cycle Life	4000



## INVERTER DETAILS

### INPUT (DC)

### X3-Hybrid-5.0T | X3-Hybrid-6.0T | X3-Hybrid-8.0T | X3-Hybrid-10.0T

	6000	8000	10000	13000
Max.recommended DC power[w]	6000	8000	10000	13000
Max.DC voltage[V]			1000	
Norminal DC operating voltage[V]			720	
Max.input current[A]	11/11	11/11	11/11	20/11
Max. short circuit current[A]	14/14	14/14	14/14	23/14
MPPT voltage range[V]			200-950	
No. of MPP trackers	2	2	2	2
Strings per MPP tracker	1	1	1	2/1

### OUTPUT AC

	5000	6000	8000	10000
Norminal AC power [VA]	5000	6000	8000	10000
Max. AC power [VA]	5000	6000	8000	10000
Rated grid voltage(AC voltage range) [V]	400(360 to 440)	400(360 to 440)	400(360 to 440)	400(360 to 440)
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60
Nominal AC current [A]	7.2	8.7	11.6	14.5
Max. AC current [A]	8.5	10	13.5	16
Displacement power factor		0.8 leading ... 0.8 lagging		
Total harmonic distortion(THD, rated power) [%]			<2	
Parallel operation			Yes	

### OUTPUT DC (BATTERY)

Battery voltage range [V]			170-500	
Max.charging/discharging power [W]	6000	8000	10000	10000
Max.charging/discharging current [A]			25	
Communication interfaces			RS485 / CAN	
Reverse connect protection			Yes	

### EPS OUTPUT (WITH BATTERY)

	5000	6000	8000	10000
EPS rated power [VA]	5000	6000	8000	10000
EPS rated voltage [V], Frequency [Hz]			400V,230VAC	
EPS rated current [A]	7.6	9	12.2	15
EPS peak power[W];Duration [seconds]	7500,60	9000,60	12000,60	15000,60
Switch time[seconds]			<1.5	
Total harmonic distortion(THD, linear load) [%]			<2	
Parallel operation			Yes	

### POWER CONSUMPTION

Standby consumption(night) [W]			<7	
Idle mode			YES	