



The Ultimate Emergency Power Supply for SDA

Designed for SDA homes, ORCA delivers reliable, uninterrupted power when it matters most, protecting both participants and carers from the impact of power outages.

Up to 5x longer-lasting than traditional UPS systems, ORCA reduces disruption, lowers maintenance, and provides true peace of mind.

With advanced black-start capability, ORCA automatically switches to solar during outages — keeping power flowing, extending battery life, and ensuring continuous operation throughout the day.

More Performance. Less Cost. Smarter Solution.

Traditional lead-acid UPS systems:

- Last just 3-4 years
- Require frequent \$4-6k battery replacements
- Costs can exceed \$100k over the system lifetime

ORCA changes the equation:

- ✓ Longer system life
- ✓ Greater backup capacity
- ✓ Lower total cost over time
- ✓ Reduced environmental impact

ORCA SDA Power Supply System Specifications

- 20.4kWh of Batteries
- UPS Hybrid Inverter
- 10kW of Solar Panels
- 10 Year Inverter Warranty
- 30 Year Panel Warranty
- 10 year / 6000 Cycle Battery Warranty
- 5 Year Whole of System Warranty
- 20 Year Expected Lifetime

Total Cost: **\$19,988** inc GST


A Smarter Investment for SDA Homes

ORCA combines performance, reliability, and long-term savings, making it the clear choice for providers and investors alike.



ORCA Performance vs Standard UPS

Compare the technical performance. Compare the financial cost. Compare the environmental costs.

Emergency Power System Features & Specifications	 ORCA <small>Powered by Meridien Energy</small>	Standard UPS
SYSTEM SIZE:		
Solar	10kW	Nil
Battery Capacity	20.4kWh	6kWh
Battery Chemistry	LFP	Lead-acid
Initial Cost	\$19,988*	\$25,234
Capital Cost (p.a) [†]	\$999	\$3,825
Total 20 year cost	\$31,748 [‡]	\$112,438
System Life	10-20+ Years	7 years (max)
Warranty	30 years	3 years standard
Battery Charging	Grid + Solar with blackstart	Grid Only
Battery Replacement Cycle	20 years	3 years
Usable Back-up Capacity	20.4Wh	6kWh
Electricity Bill Cost Savings	Yes	No
Environmental Benefits	Yes	No
Medical Grade UPS	No	No
Emergency Power Supply	2-10 hours	2 hours
Switching Time	<5 m/s	<10 m/s
Energy Islanding	Yes	No
Live Monitoring	Yes	Yes
Ambient Temp Susceptibility	No (up to 45C)	Yes (over 25C)
Self Extinguishing Aerosol	Yes	No
System Life Environmental Impact	Very Low	Very High