



INNOVATION IN POWER & STORAGE TECHNOLOGY

Redx Energy RX-2505AC AC Coupled Battery

Redx Energy (Redx) is an Australian owned and operated company, a leader in innovative inverter power and storage technology.

With a passion for innovation, Redx holds over 30 technology patents that are groundbreaking in the inverter space.

The Australian Office manages software engineering, new product design, technology support and after sales service. With local expertise, Redx can respond quickly to customer enquires and also has the agility to provide customised solutions.



**Australian
designed**



**VPP
ready**



**High
efficiency**



**Easy
install**



Redx Energy RX-2505AC

The **RX-2505AC** is an all-in-one Energy Storage System (ESS) designed to achieve the highest efficiency using Redx patented FWS inverter technologies.

This AC coupled battery best fits a location where an existing solar system is installed.

INPUTS

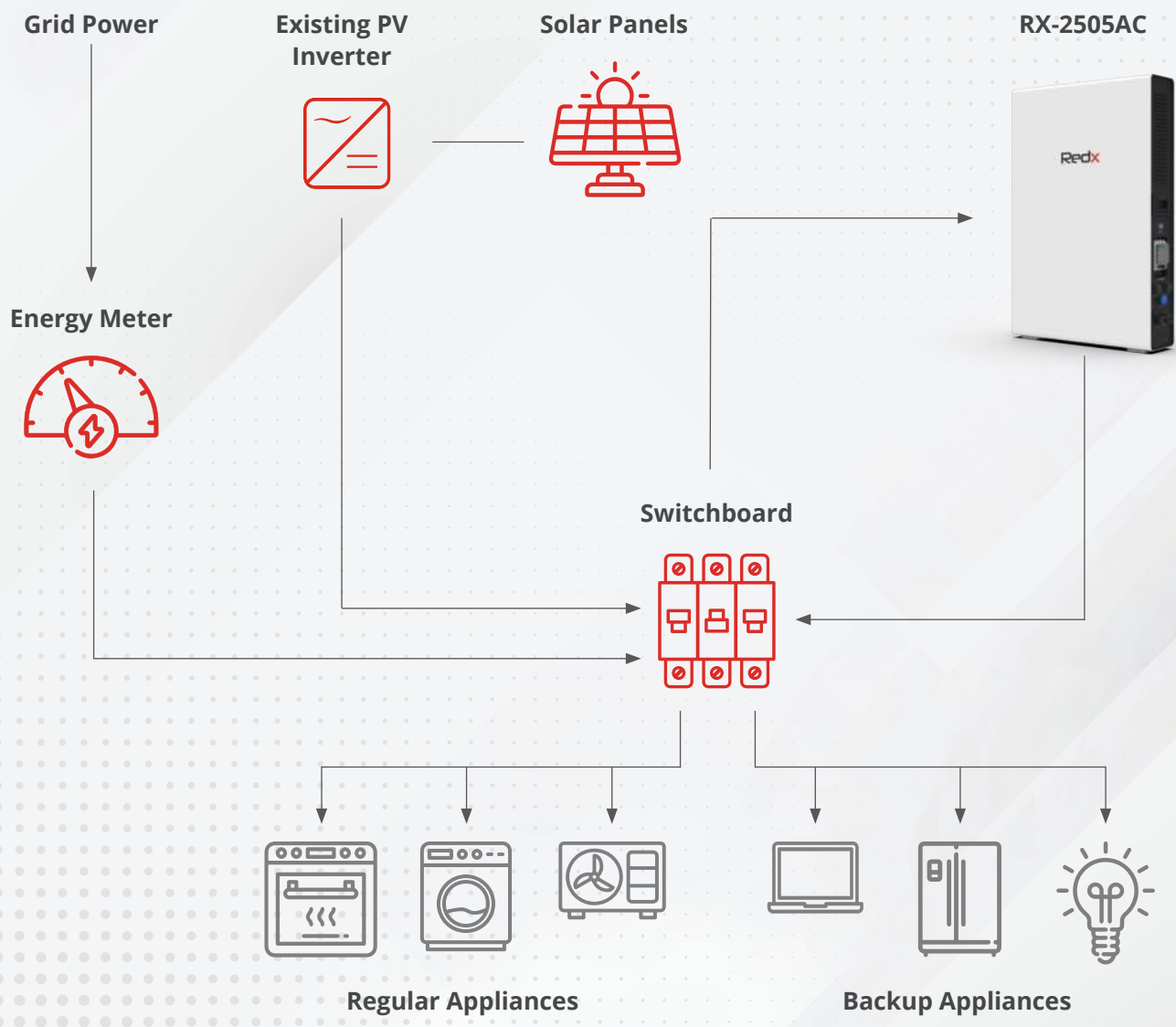
The 2505AC is wired to the mains switchboard, it supports all PV inverter brands with a dedicated PV CT and includes an EPS backup output for blackout situations. This ESS is an AC coupled battery, it best fits a location with an existing solar system installed.

SOFTWARE & MONITORING

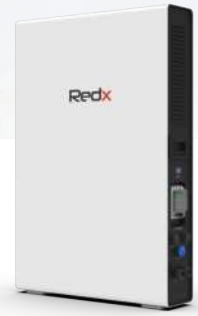
Through the monitoring platform Solar Installers can manage their fleet of installations and proactively supervise and configure customers' devices. The cloud-based software platform Redx™ Power and App enables customers to track generation, consumption and storage.

VPP & TRADING

Customers can keep track of their generation and savings with the ability to trade power. With VPP-ready hardware and software, the RX-2505AC provides the ultimate next generation energy solution with a cloud-based real time control, trading and monitoring.



Redx Energy RX-2505AC



Integrated Energy Storage System 2,500 Watt solar/battery inverter with 4.8 kWh of storage

INVERTER

AC Inputs	
AC Input Voltage	230V +/- 15%
AC Input Nominal line Frequency	50/60Hz +/- 10%
Max input current (charge mode 0.3C)	22A
AC Outputs	
AC Output Voltage	230V
Maximum Output Power - Continuous	2,500W
Maximum Output Power - 10 seconds	2,750W
AC Output Frequency (Off-grid)	50/60Hz +/- 0.10Hz
Max AC Output Current	12A
Max efficiency - battery to AC output	96%
Switching time (on-off grid)	<50ms
Switching time (on grid/ own energy production)	20ms
Total Harmonic Distortion (THD)	<3%
Power Factor Nominal Range	0.8 leading to 0.8 lagging

BATTERY

Capacity	5.12 kWh
Nominal voltage	48V
Min/Max Voltage	42V / 55V
Max Discharge current	70A
Max Charge current	30A
Round Trip efficiency	92%
Battery Technology	Lithium Iron Phosphate
Depth of Discharge	90%

CERTIFICATION, SAFETY, EMC & WARRANTY

Certificates	SAA, TUV
Safety & EMC	AS4777.2, IEC-62040-1, IEC62109-1, EN61000.6:3:2007
Warranty	10 years

¹ Manufacturer specified test conditions.

Product specifications are subject to change without prior notice.

MECHANICAL

Weight	75 kg
Dimensions	600mm W * 900mm H * 145mm D

GENERAL

Internal on/off grid switching	Yes
Protection Functions	Yes
Current sensors	Two CTs
Status indicator display	Yes
Embedded software package (optional)	VPP & Peak Shaving
VPP-ready/remote control	Yes
Communication	Modbus, RS485, Wifi, 4G

ENVIRONMENTAL / OPERATIONAL RANGE

Environment	Indoor rated
Ingress rating	IP32
Enclosure for outside use	Yes, sold separately
Operating temperature range (charging)/(discharging)	0°C~50°C / -20°C~50°C
Relative Humidity	10-100%
Cooling	Air Cooling



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