



INNOVATION IN POWER & STORAGE TECHNOLOGY

Redx Energy RX-2505PW

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**



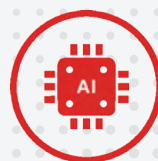
**On/Off Grid
functions**



**High
efficiency**



**Local Technical
Support**



**Embedded AI
Software**



Redx Energy RX-2505PW

The **RX-2505PW** is an all-in-one Energy Storage System (ESS) designed to achieve the highest efficiency using Redx patented FWS inverter technologies. This unique ESS allows bi-directional energy flow with the grid and it has DC inputs to enable renewable power generation even during a grid loss situation.

INPUTS

The Redx ESS provides a versatile range of input power options including solar and wind. The RX-2505PW is also capable of controlling a back up generator and supports generator input.

The low voltage PV and Wind inputs provide safe installations for small homes, remote sheds and trailer home applications.

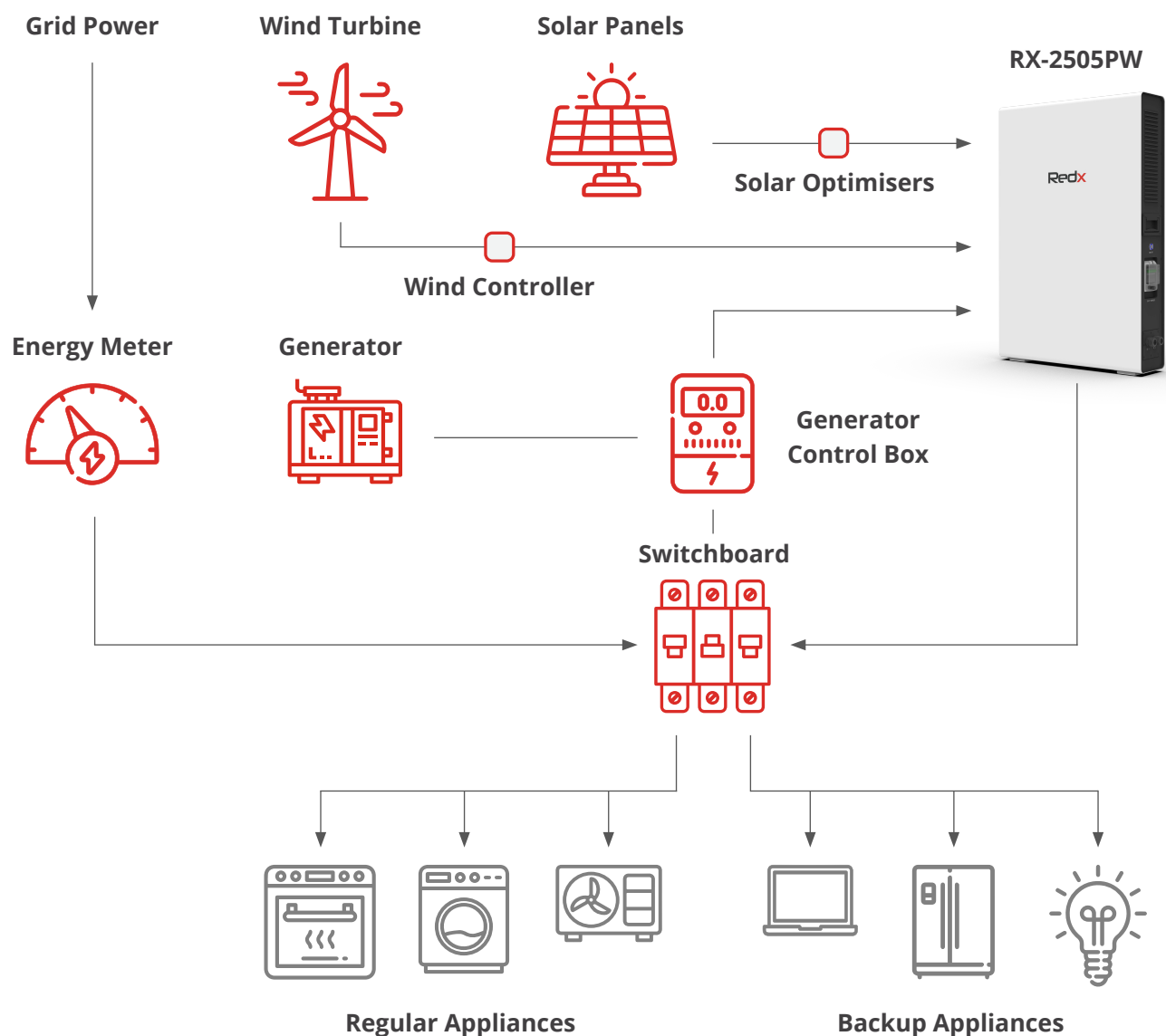
SOFTWARE & MONITORING

Through the monitoring platform Solar Installers can manage their fleet of installations and proactively respond to customers. The cloud-based software platform Redx™ Power and App enables customers to track generation, consumption and storage, with the ability to trade power.

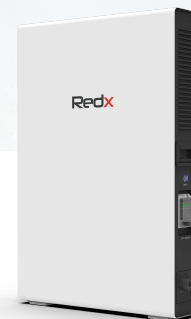
VPP & TRADING

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

Integrated AC-Coupled Energy Storage System with 2.5 kW solar/battery inverter and 4.8 kWh of storage



Redx Energy RX-2505PW



Integrated Energy Storage System

2,500 Watt solar/battery inverter with 4.8 kWh of storage

INVERTER

AC Inputs	
AC Input Voltage	195.5V - 264.5V
AC Input Nominal line Frequency	50/60Hz +/- 10%
Max input current (charge mode 0.3C)	22A
Generator control	Yes, control box sold separately
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
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	100%

CERTIFICATION, SAFETY,

Certificates	SAA,CE
Safety & EMC	AS4777.2, IEC-62040-1, IEC62109-1, EN61000.6.3:2007
Warranty	10 years

DC INPUT

PV Input Voltage	48V
Maximum Solar PV Charge current	50A (100% solar)
Maximum Solar PV Wattage	2,500W (with no wind generation)
Optimisers required for Solar PV	Yes, sold separately
Wind Turbine input Voltage	48V
Maximum Wind Turbine Current	50A (100% Wind)
Maximum Wind Turbine Wattage	2,500W (with no solar generation)
Wind controller & divert load required	Yes, sold separately
Total DC input power	2,500W

MECHANICAL

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

GENERAL

Internal on/off grid switching	Yes
Protection Functions	Yes
Current sensors	One CT
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

¹ Manufacturer specified test conditions.

Product specifications are subject to change without prior notice.



Certificates



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