



INNOVATION IN POWER & STORAGE TECHNOLOGY

Redx Energy RX-2505PU

Emergency Power System

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



High
efficiency



Solar-wind-AC
charging



On/Off grid
functions



Redx Energy RX-2505PU

The **RX-2505PU** is an Emergency Power System designed with a true on or off grid functionality.

Plug in and play your dedicated appliances directly to the energy storage system to protect yourself from blackouts. With solar, wind and AC inputs, it becomes an ultimate backup power system for your critical loads.

INPUTS

The Redx RX-2505PU provides a versatile range of input power options including solar and wind. The RX-2505PU 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.

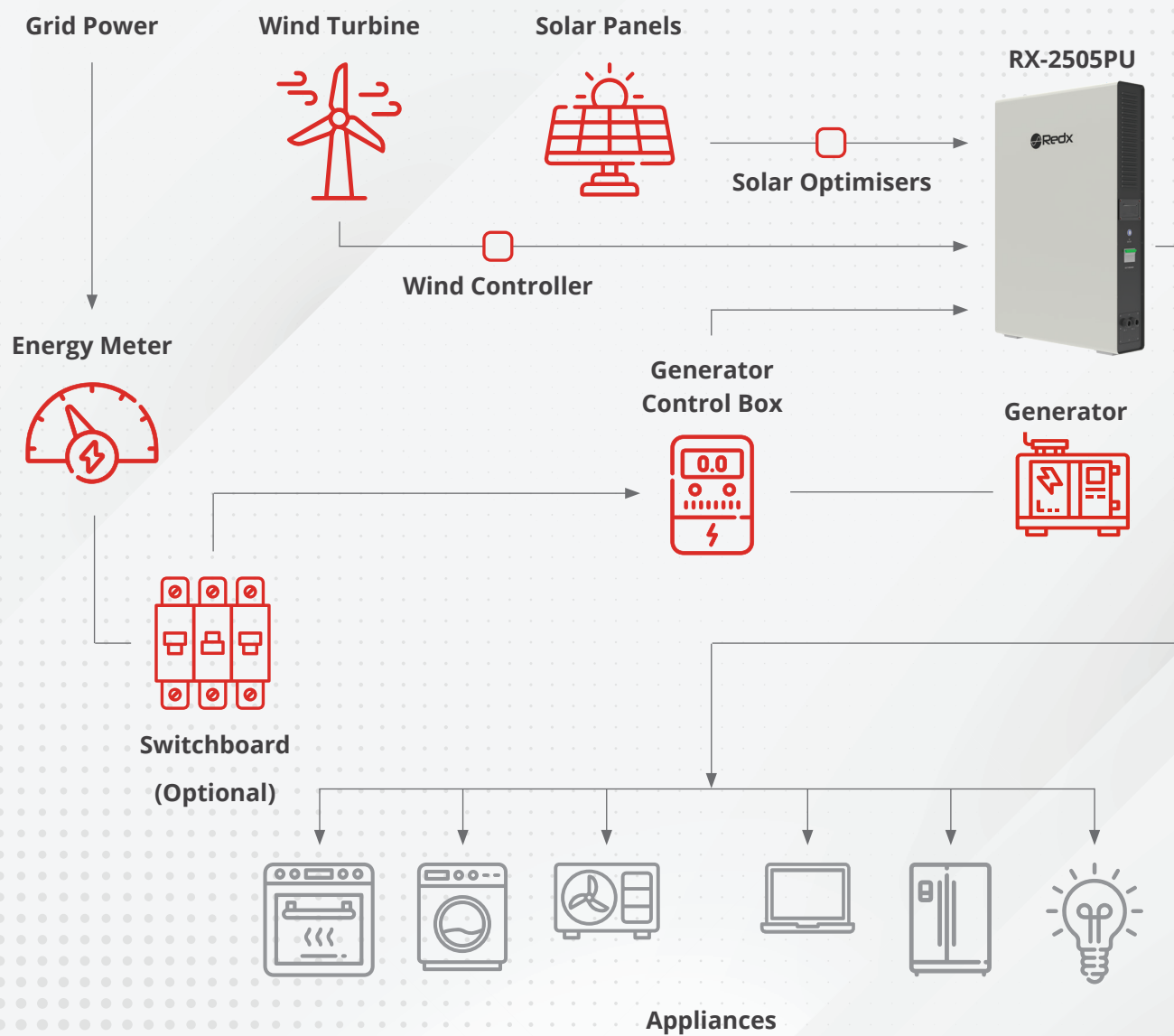
SOFTWARE & MONITORING

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

VPP

With VPP-ready hardware and software, the RX-2505PU provides the customer the capability to remotely manage their devices with cloud-based real time control and monitoring.

Integrated Emergency Power System with 2.5 kW solar/battery inverter and 4.8 kWh of storage



Redx Energy RX-2505PU



Integrated Emergency Power 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	50Hz +/- 10%
Max input current (charge mode 0.3C)	19A (AC bypass mode and charging battery)
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)	50Hz +/- 0.10Hz
Max AC Output Current	12A
Max efficiency - battery to AC output	96%
Switching time (on-off grid)	150ms
Switching time (on grid/ own energy production)	20ms
Total Harmonic Distortion (THD)	<3%

BATTERY

Capacity	4.8 kWh
Nominal voltage	48V
Min/Max Voltage	42V / 55V
Max Discharge current	70A
Max Charge current	30A
Round Trip efficiency	92%

CERTIFICATION, SAFETY, EMC & WARRANTY

Certificates	SAA, TUV
Safety & EMC	AS62040.1, IEC62040-1.
Warranty	7 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
Internal communication port	RS485
Status indicator display	Yes
Communication	RS485, Wifi, 4G

ENVIRONMENTAL / OPERATIONAL RANGE

Ingress rating	IP32
Operating temperature range (charging)/(discharging)	0° to +50°
Cooling	Air Cooling

¹ Manufacturer specified test conditions.

Product specifications are subject to change without prior notice.



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