



INNOVATION IN POWER & STORAGE TECHNOLOGY

Redx Energy RX-7000HY

Hybrid Battery 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 ability to provide customised solutions.



7000W
discharge



On-Off Grid
functions



VPP
ready



Hybrid
inverter



Quick
installation



Single stage
inverter



Redx Energy RX-7000HY

The **RX-7000HY series** is an all-in-one energy storage system designed to achieve the highest efficiency using Redx patented Single Stage Buck-Boost Inverter with Step Modulation.

INPUTS

The Redx ESS provides a versatile range of input power options including solar and wind. The RX-7000HY is also capable of controlling a back up generator and supports generator input.

The RX7000 is a powerful on/off grid hybrid inverter capable of powering your home 24/7.

SOFTWARE & MONITORING

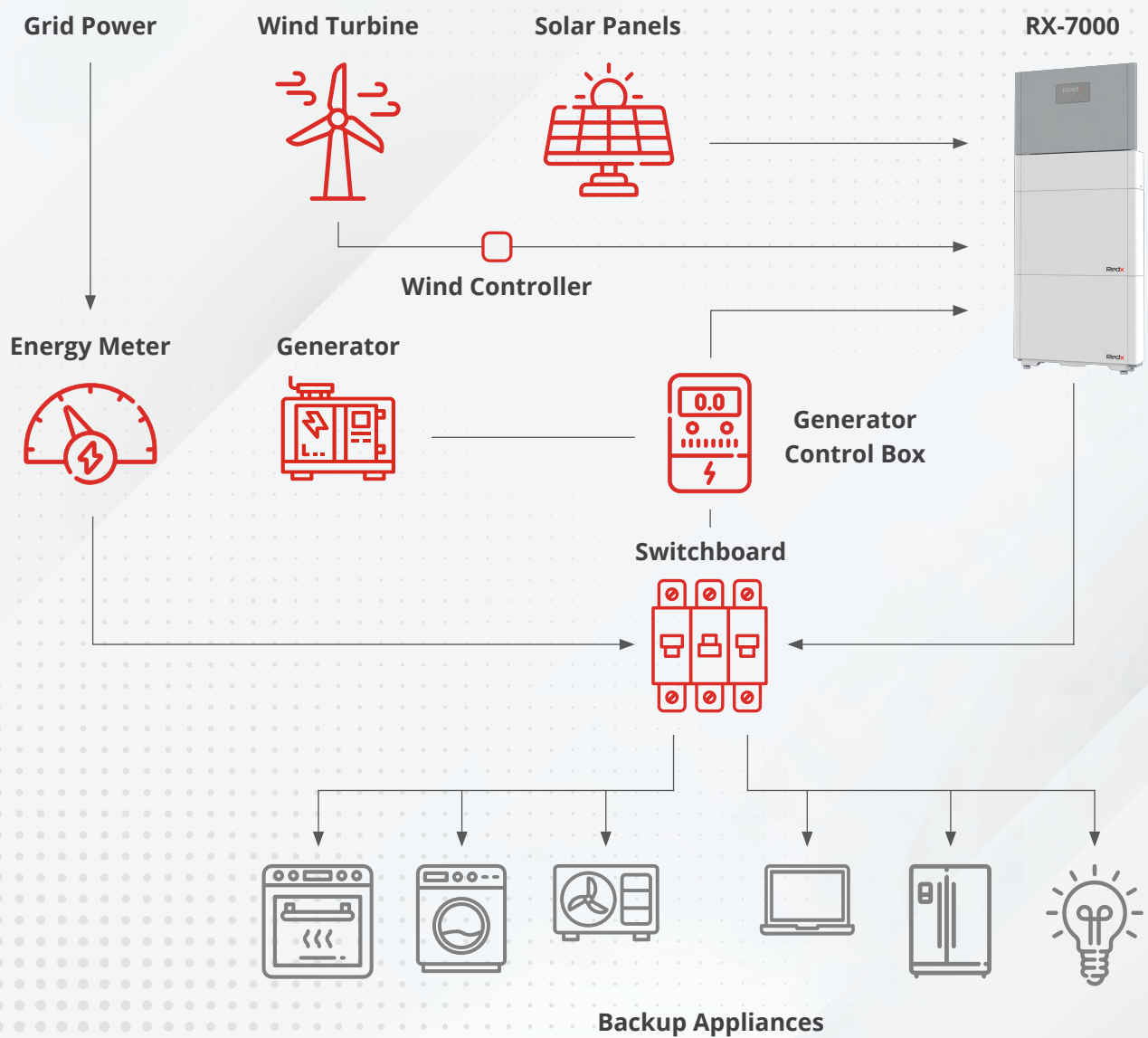
Through the monitoring platform Solar Installers can manage their fleet of installations and proactively respond to customers. The cloud-based software platform Redx™ Power and App enables customers to track generation, consumption and storage, with the ability to trade power.

VPP & TRADING

Customers can keep track of their generation and savings with the ability to trade power. With VPP-ready hardware and software, the RX-7000 provides the ultimate next generation with cloud-based real time control, trading and monitoring.



Integrated Energy Storage System with 7 kW solar/battery inverter and 10-20 kWh of storage



Redx Energy RX-7000HY



Integrated Energy Storage System

7,000 Watt solar/battery inverter with 10-20 kWh of storage

INVERTER

AC Inputs	
AC Input Voltage	170 V - 280 V
AC Input Nominal line Frequency	50Hz +/- 10%
Switching time (on-off grid)	<50ms
Max input current (charge mode 0.3C)	40A (bypass mode + charge mode)
Generator control & input	Yes
AC Outputs	
AC Output Voltage / Frequency	230V / 50Hz +/- 0.10Hz
Maximum Output Power - Continuous	7,000W
Maximum Output Power - 60 seconds	8,000W
Maximum Output Power - Battery only	5,000W
Max efficiency - battery to AC output	96.50%
Max output current	35A
Total Harmonic Distortion (THD)	<2%
Power Factor Nominal Range	0.8 leading to 0.8 lagging

BATTERY

Capacity	10 / 15 / 20 kWh
Depth of discharge (DOD)	90%
Battery life	6000 Cycles ¹
Min/Max Voltage	43.2V / 56.8V
Nominal Voltage	51.2V
Max Charge & Discharge Rate (C-Rate)	0.5C
Battery Chemistry	LiFePO4
Round Trip efficiency	96%

CERTIFICATION, SAFETY, EMC & WARRANTY

Certificates	SAA, TUV
Safety & EMC	IEC62109-1, IEC62109-2, IEC62040, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, AS4777.2
Warranty	10 years

DC INPUT

PV Input Voltage	600V
Min. PV operating voltage	120V
MPP Voltage range	120V - 530V
No. of independent MPP inputs	3
Max. DC short-circuit current	20A / 20A / 20A
Wind input	Yes (Max 2KW)

MECHANICAL

Weight	100 kg (10kWh)
Dimensions	1360mm H * 600mm W * 160mm D (10kWh)

GENERAL

Internal on/off grid switching	Yes
Protection Functions	Yes
Current sensors	Yes
High Voltage Battery supported	Yes
External communication port	RS485
Status indicator display	Yes
Embedded software package (optional)	VPP & Peak Shaving
VPP-ready/remote control	Yes
Communication	Modbus, RS485, Wifi, 4G

ENVIRONMENTAL / OPERATIONAL RANGE

Ingress rating	IP55
Operating temperature range (charging)/(discharging)	0°C~45°C / -10°C~45°C
Cooling	Natural cooling
Relative Humidity	10-100%



Members of:



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Redx

¹ Manufacturer specified test conditions.

Product specifications are subject to change without prior notice.