



INNOVATION IN POWER & STORAGE TECHNOLOGY

Redx Energy RX-7000HY

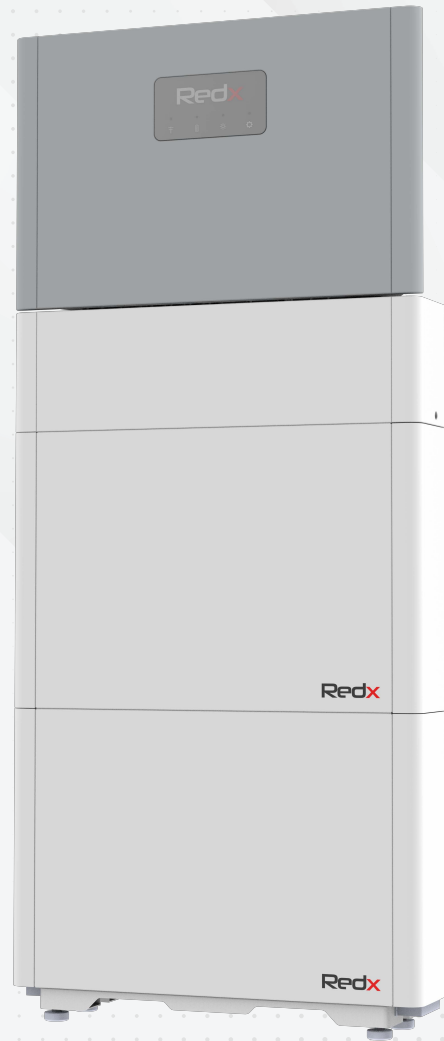
Hybrid Battery System

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

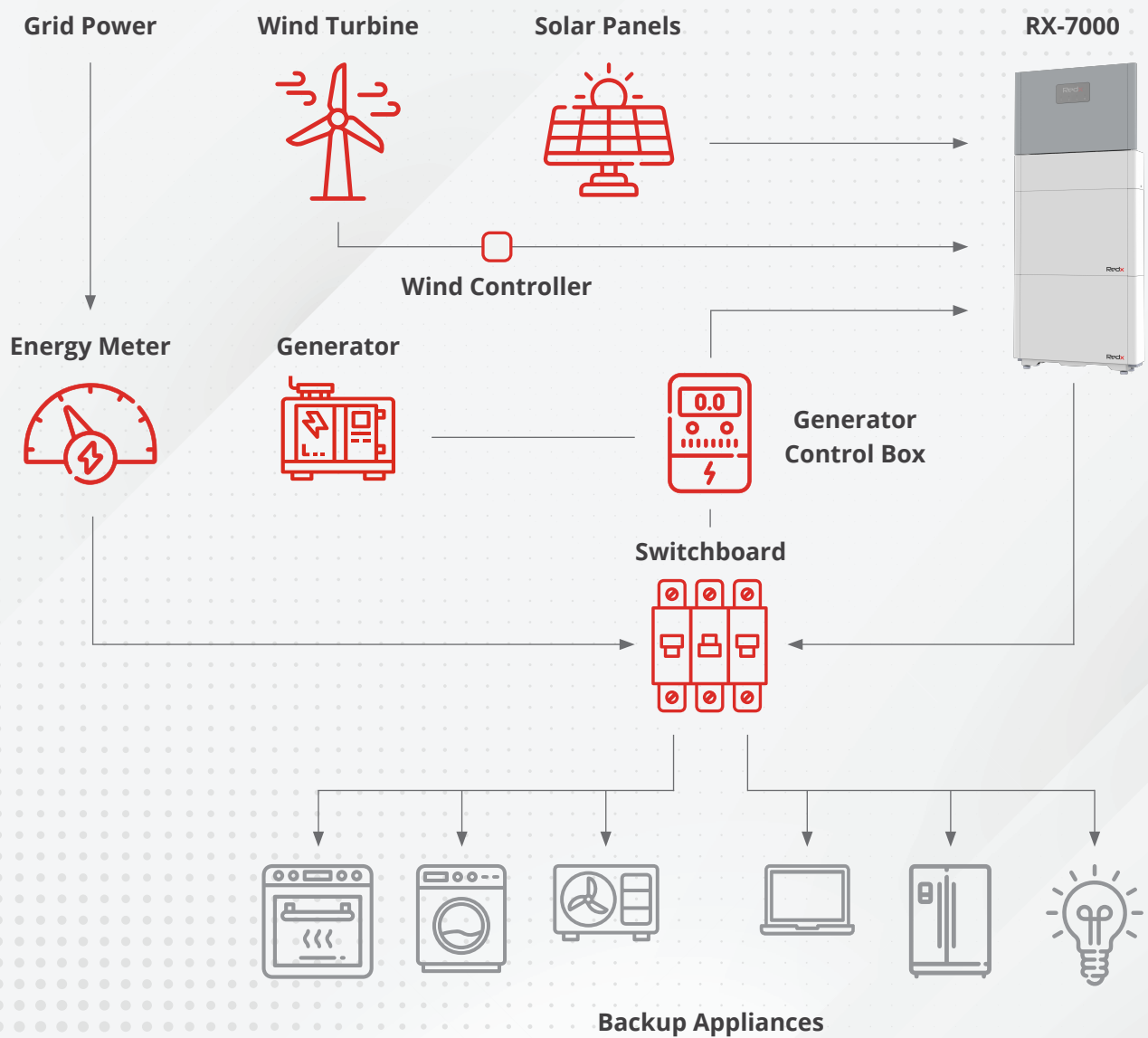
Through the monitoring platform Solar Installers can manage their fleet of installations and proactively respond to customers. The cloud-based software platform Redx™ Power and App enables customers to track generation, consumption and storage, with the ability to trade power.

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.