



INNOVATION IN POWER & STORAGE TECHNOLOGY

Redx RX-5000HY

Hybrid Inverter

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.



**5000W
discharge**



**On-Off Grid
functions**



**VPP
ready**



**Hybrid
inverter**



**Quick
installation**



**Single stage
inverter**



Redx RX-5000HY

The **RX-5000HY** inverter is an all-in-one hybrid inverter designed to achieve the highest efficiency using Redx patented Single Stage Buck-Boost Inverter with Step Modulation.

INPUTS

The Redx inverter provides a versatile range of input power options including solar and wind. The RX-5000HY is also capable of controlling a back up generator and supports generator input.

The RX5000HY is a powerful on/off grid hybrid inverter capable of powering your home 24/7.

SOFTWARE & MONITORING

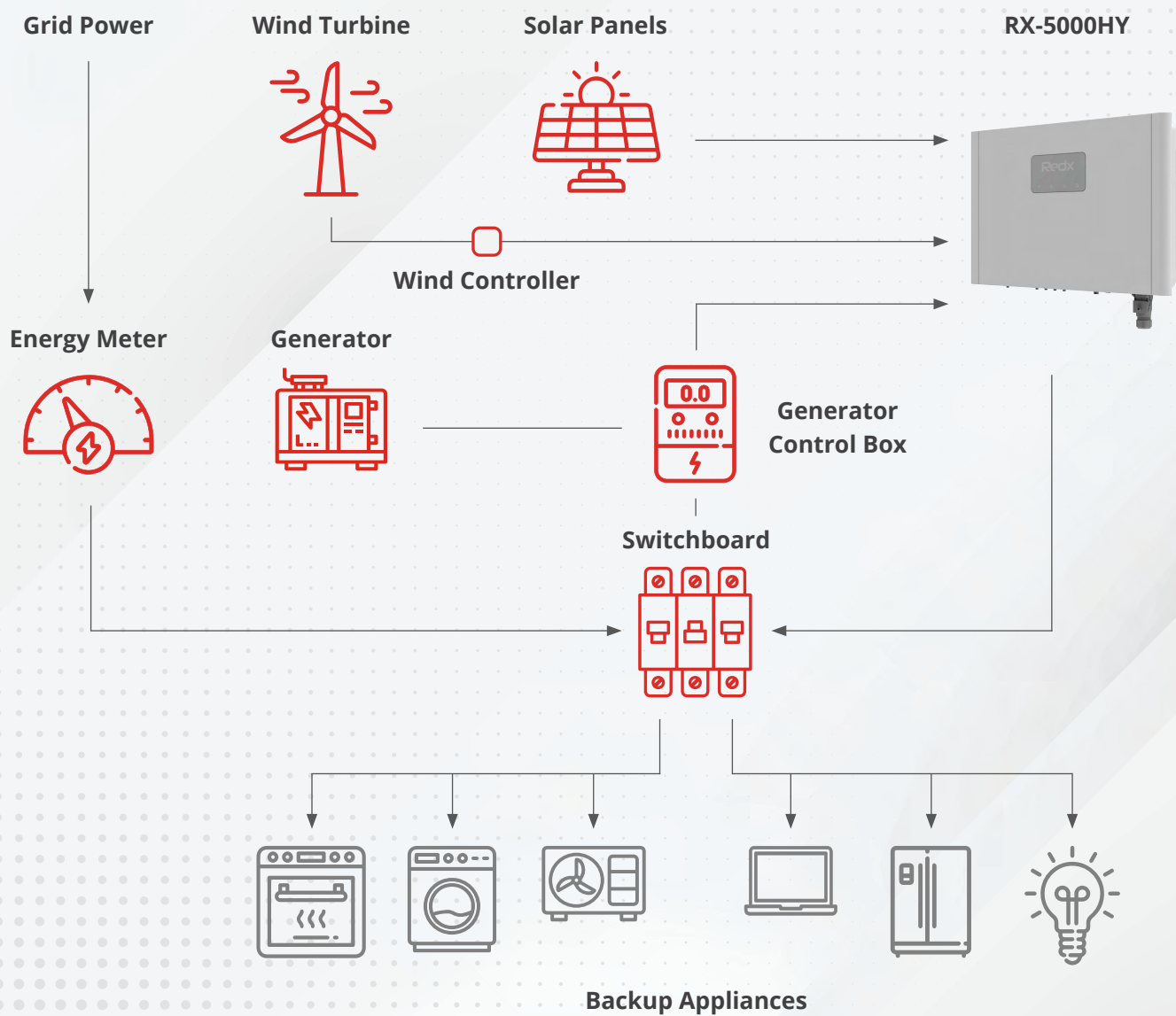
Through the monitoring platform Solar Installers can manage their fleet of installations and proactively respond to customers. The cloud-based software platform Redx™ Power and App enables customers to track generation, consumption and storage, with the ability to trade power.

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-5000HY provides the ultimate next generation with cloud-based real time control, trading and monitoring.



5 kW solar/battery inverter
supporting 10-20 kWh of storage



Redx RX-5000HY

5,000 Watt solar/battery inverter



INVERTER

AC Inputs (Grid Port)	
AC Input Voltage	170 V - 280 V
AC Input Nominal line Frequency	50/60Hz +/- 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 (Grid and EPS Load Ports)	
AC Output Voltage / Frequency	230V / 50Hz +/- 0.10Hz
Inverter Max efficiency	96%
Total Harmonic Distortion (THD)	<2%
Power Factor Nominal Range	0.8 leading to 0.8 lagging
Max efficiency - batter	96.50%
Maximum Output Power - Battery only	5,000W
Grid Port AC Output	
Rated Current	30.5A
Maximum Output Power - Continuous	5,000W
Maximum Output Power - 60 seconds	5,500W
Max output current	25A
Rated Power	5,000VA
EPS Load AC Output	
Max output current	25A
Rated current	22A
Rated Power	5,000VA

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

MECHANICAL

Weight	35kg
Dimensions	400mm H * 620mm W * 162mm D

¹ Manufacturer specified test conditions.

Product specifications are subject to change without prior notice.

DC PORTS

PV Port Max Current / Voltage	15A / 550V
PV Max DC short-circuit Current	20A / 20A / 20A
PV Port Voltage (MPPT)	120V-530V
No. of independent MPP Ports	3
MPPT max'd ckt Yf / (Total)	3kW/3kW/3kW / (9kW)
56V Auxiliary DC Port Voltage Range	56V - 60V
56V Auxiliary DC Max Current / Power	40A / 2kW
BAT LV Port Max Current / Power	115A / 5kW
Battery Port Voltage Range	42V - 60V
Compatible battery (Battery Chemistry)	RX-0050 (Lithium Iron Phosphate)
HV DC Port Max Current	20A
HV DC Port Voltage Range	250V - 360V
HV DC Port Rated Voltage / Power	307.2V / 5kW

GENERAL

Internal on/off	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
Country of manufacture	China

ENVIRONMENTAL / OPERATIONAL RANGE

Ingress rating	IP65
Operating temperature range	-20°C~50°C
Cooling	Natural cooling
Relative Humidity	10-100%



Members of:



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