



INNOVATION IN POWER & STORAGE TECHNOLOGY

Redx RX-5000AC

Battery 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.



7000W
discharge



On-Off Grid
functions



VPP
ready



Quick
installation



Single stage
inverter



Redx RX-5000AC

The **RX-5000AC** is an AC coupled battery inverter designed to achieve the highest efficiency using Redx patented FWS inverter technologies. This battery inverter is the best fit for a location where an existing solar system is installed.

INPUT AND OUTPUT

The RX-5000AC is wired to the mains switchboard, it supports all PV inverter brands with a dedicated PV CT and includes an EPS backup output for blackout situations when compatible battery unit is connected

SOFTWARE & MONITORING

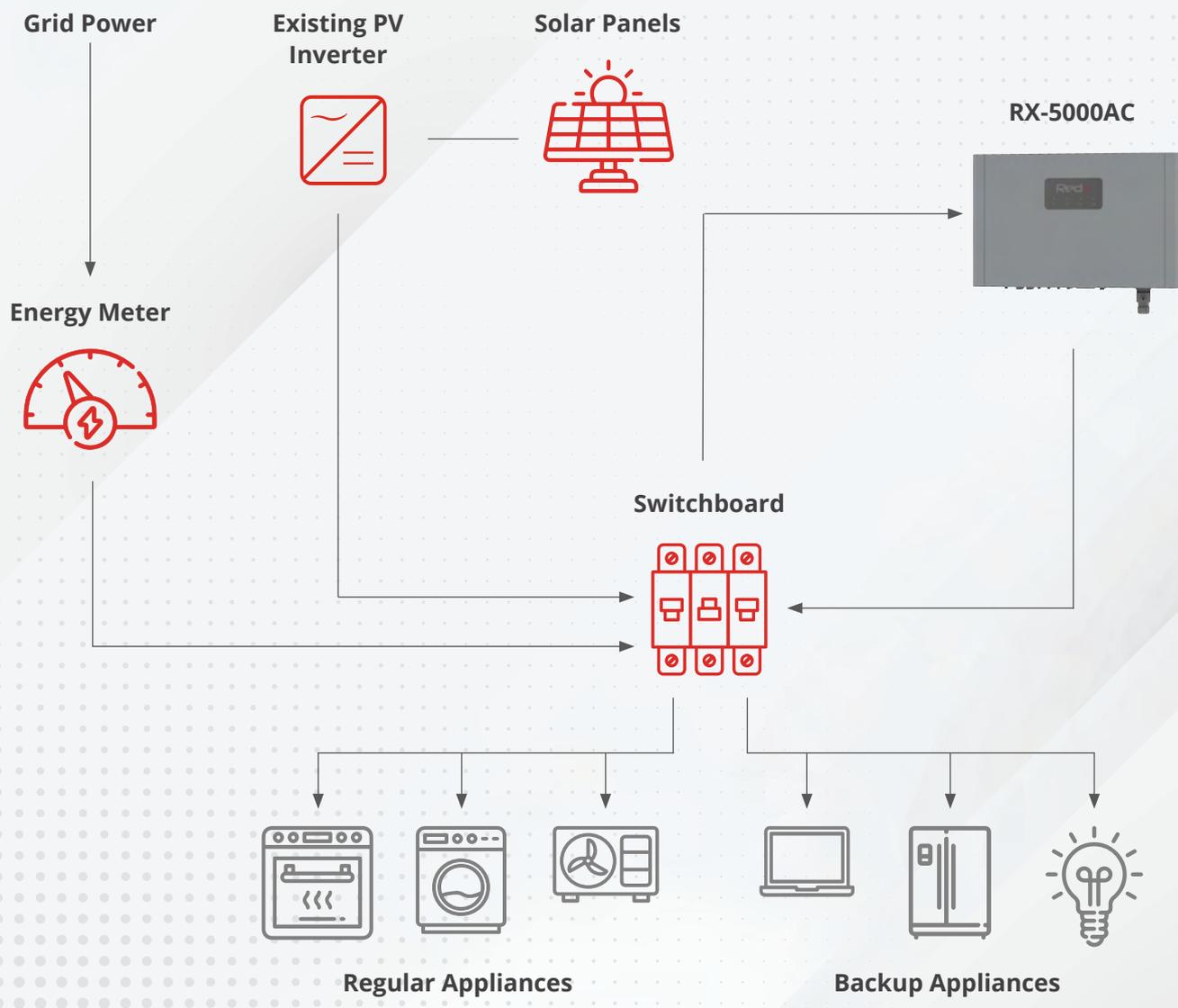
Through the monitoring platform Solar Installers can manage their fleet of installations and proactively respond to customers. The cloud-based software platform Redx Power and App enables customers to track generation, consumption and storage, with the ability to trade power.

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



5 kW battery inverter supporting 10-40 kWh of battery storage



Redx Energy RX-5000AC



Integrated Energy Storage System 5,000 Watt battery inverter with 10 - 40 kWh of storage

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)
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 - battery	96.50%
Maximum Output Power - Battery only	5,000W
Grid Port AC Output	
Rated Current	22A
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

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

¹ Manufacturer specified test conditions.

Product specifications are subject to change without prior notice.

DC PORTS

BAT LV Port Max Current / Power	115A / 5kW
Battery Port Voltage Range	42V - 60V
Compatible battery (Battery Chemistry)	RX-0050 (Lithium Iron Phosphate)

COMMUNICATION

RS485 A&CAN	BMS
RS485 B	Wi-Fi/4G
RS485 D	Parallel / Reserved
Current Sensors	External CT
Dry Contact 1	External DPDT Switch
Digital Input	Turn on / Turn off (5v, 0.1A)
DRM	DRM0

GENERAL

Protection Functions	Full Protection Functions
Current sensors	External
Display / Indicators	LED Indicators
External communication port	RS485
VPP-ready/remote control	Yes
Embedded software package (optional)	VPP & Peak Shaving
Size W*H*T	620mm x 400mm x 162mm
Weight	22.5kg
Country of manufacture	China

ENVIRONMENTAL / OPERATIONAL RANGE

IP rating	IP65
Operating temperature range	-20°C~ 50°C
Cooling	Convection
Relative Humidity	10-100%



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