

User Manual

RX SERIES HYBRID INVERTER

RX-7000HY RX-5000HY



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Contact Us

Redx Technology Australia Pty Ltd

Address: U2 / 21 Millennium Circuit, Helensvale, Australia 4212

Tel: +61 7 5672 9983
Email: info@redx.com.au
Website: www.redx.com.au

About This Manual

This manual mainly describes the product information, installation, operation, and maintenance guidelines of the Redx Hybrid inverter (RX-7000HY/5000HY). Please read this manual carefully before using this product and store the manual in a safe place. Redx will not notify the user of any changes to this manual.

This manual applies to the RX-7000HY/5000HY Hybrid inverter. The inverter must be installed by a qualified/licensed technician electrical. We strongly recommend that installers read this manual carefully. The manual includes the guidance on product installation, troubleshooting, communication and other aspects

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1 Safety

1.1 Important Safety Instructions

The RX-7000HY/5000HY Hybrid inverter has been designed and tested strictly according to international safety regulations. Read all safety instructions carefully prior to any work and always observe them when working with the Hybrid inverter.

Incorrect Operation or Work May Cause:

- Injury or death to the operator or third party.
- Damage to the inverter and other property or third party.

Safety Instructions

- (a) Do not open the case as risk of electric shock
- (b) Maintenance should be carried out by a professional licensed technician
- (c) Read this manual before operating the system. Redx is not responsible for failure or loss arising out of improper operation.
- (d) All wiring, installation, commissioning, and other work should be done by a licensed technician
- (e) Ensure that the storage unit is not installed or used in the following locations:
- · Poorly ventilated room
- Places with inflammable gases or corrosive materials and large amounts of dust
- High or low Environment temperature (above 50°C or below -20°C), or high humidity (greater than 90%)
- In direct sunlight or near heating equipment
- Outdoor
- Do not use anything to cover the inlet and exhaust of the module

In case of fire, use dry powder fire extinguishers instead of liquid fire extinguishers.

All electrical connections are subject to the local grid safety regulations and the storage system should be reconnected to the grid under conditions of approval.

Table 1-1 - Warnings



Danger!

Removal of any protection, incorrect use, incorrect installation, or incorrect operation may result in death/serious personal injury or device damage. Transportation, loading and unloading, installation, start-up and maintenance must be carried out by qualified or trained engineer/technician.



Danger!

Before maintenance or touching any parts, or installation, make sure that the energy storage unit is disconnected and wait 5 minutes to ensure that the internal capacitor is discharged.



Warning!

Installation must be in full compliance with national and local laws and regulations.



Warning!

Ensure that the system is positioned correctly and is not allowed to roll sideways or upside down.



Warning!

Do not change the internal circuit of the machine without permission.



Warning!

Before connecting to the grid, system the must be connected to the Ground. Follow the instructions. Improper operation may cause serious damage.



Notice!

There is a 4G/WIFI device connecting to the inverter, do not place the system in an environment where there is no 4G/WIFI signal.



Warning!

The product is not tested to section 5 of AS/NZS 4777.2:2020 and is not to be used in multiple inverter combinations without additional considerations by the system designer





The load capacity of the output of the inverter load is as follows: Inductive load (such as air conditioning, washing machine, motor, etc.). Single maximum power 3.5kVA, total inductive load maximum power 4.2kVA (with power grid);

Capacitive load (e.g. computer, switching power supply, etc.).

The maximum power of the total capacitive load is 3.5kVA (without power grid); The maximum power of the total capacitive load is 4.2KVA (with power grid).

Warning!



When installing the PV, install a circuit breaker between the PV and the inverter and between the inverter and the power grid according to local regulations.

When the photovoltaic array is exposed to light, it supplies a DC voltage to the PCE. To ensure a safe work environment, keep the whole surface of the photovoltaic panel covered with opaque material to solar radiation before connecting panel to equipment.

2 Product Introduction

2.1 System Diagram

The RX-7000HY/5000HY is a Hybrid inverter combined with PV and energy storage systems. it utilizes solar power and battery power to ensure continuous power supply even during a grid outage, the unused power can also be fed into the power grid. The inverter also provides additional LV_BUS expansion ports and HV_BUS expansion ports for compatible connections.

Anti-Islanding Protection

The Islanding effect is a special phenomenon when a grid-connected PV system supplies power to the grid, when the grid has suffered a power loss. Feeding power into a grid during a power loss is dangerous for maintenance personnel and the public. The RX-7000HY/5000HY inverters provide Anti-Islanding Protection to prevent the islanding effect.

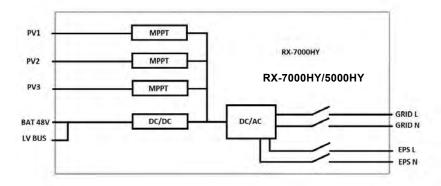


Figure 2.1.1 - The internal system diagram

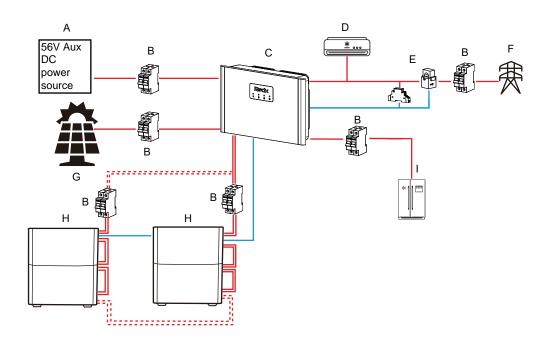


Figure 2.1.3 The 7000HY/5000HY application with PV and 56V Auxiliary DC input

Red indicates a power cable, Blue indicates a signal cable The explanation is as follows:

Table 2.1.2 - Diagram elements explained

Number	Name
А	56V Auxiliary DC input
В	Circuit Breaker
С	RX-7000HY/5000HY Hybrid Inverter
D	Regular Loads
E	Smartmeter/CT
F	Grid
G	PV Panel
Н	Battery
I	Backup Loads

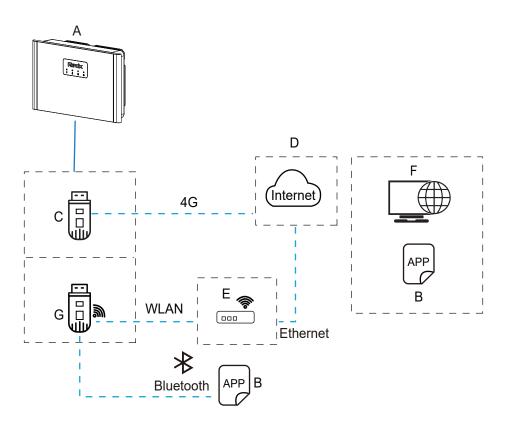


Figure 2.1.4 The communication components (dashed boxes indicate optional components) of the RX-7000HY/5000HY Hybrid inverter.

—— Blue indicates a signal cable, - - Blue hidden indicates wireless communication The explanation is as follows:

Table 2.1.3 - Diagram elements explained

Number	Name
A	RX-7000HY/5000HY
В	Redx Power App
С	4G Module
D	Internet
E	Wi-Fi Router
F	Cloud Server
G	Wi-Fi Module

2.2 Product Details

2.2.1 Appearance and Dimensions

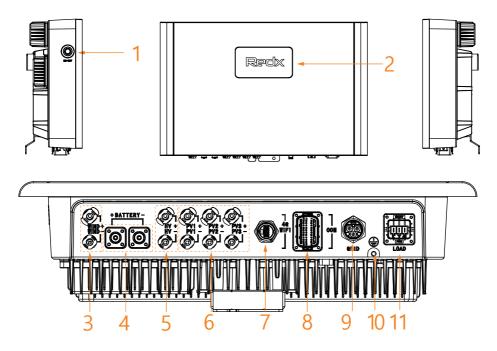


Figure 2.2.1 RX-7000HY/5000HY terminals

Table 2.2.1 - Diagram elements explained

Items	Name		
1	On/off Switch		
2	LED interface		
3	LV BUS / 56V Aux DC		
4	BAT		
5	DC BUS HV / NOT USED		
6	PV		
7	WIFI / 4G		
8	Communication connector		
9	Grid connector		
10	Protective grounding / Earth link		
11	EPS LOAD connector		

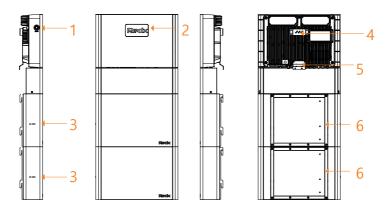


Figure 2.2.2 RX-7010HY/5010HY Assembly diagram

Table 2.2.2 - Diagram elements explained

Items	Name
1	Main Power Switch
2	LED Interface
3	SOC Indicator
4	Inverter Bracket
5	Inverter Bracket 2
6	Battery Bracket

Note: The inverter can also be installed without batteries. 2-8 (10-40kWh) Redx RX-0050 (lithium iron phosphate) batteries can be added to the system later.

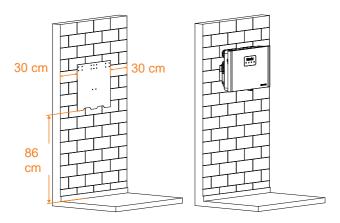


Figure 2.2.3 RX-7000HY/5000HY installation guide without batteries

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2.2.2 Dimensions

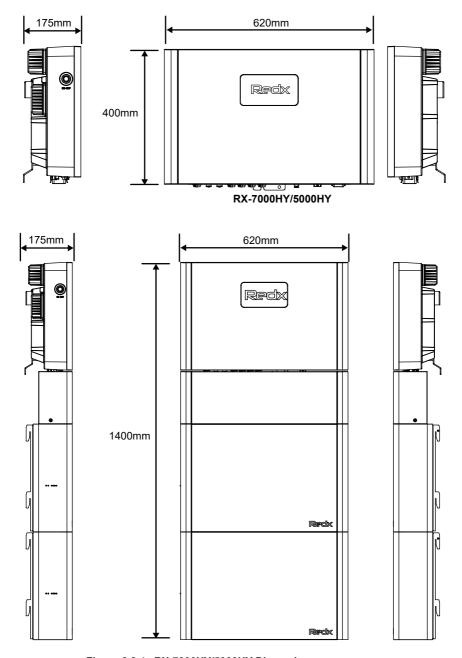


Figure 2.2.4 RX-7000HY/5000HY Dimensions

2.3 LED Indicator Panel and Switches

Main power switch

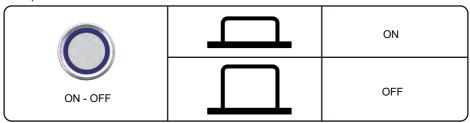


Figure 2.3.1 RX-7000HY/5000HY On-Off switch

Table 2.3.1 - Status LED elements explained

LED indicator

		Green flash	Startup conditions are not met
	System indicator	Green liasii	Startup conditions are not met
		Green	Normal
**		Yellow	System warning
		Red	System fault
		None	No PV
	PV indicator	Green	Normal
	PV Indicator	Yellow	PV undervoltage
		Red	PV fault
	Battery indicator	None	No battery
		Green flash	Charging
		Green Solid	Discharging
		Yellow	Battery warning
		Red	Battery fault
	Grid indicator	None	Grid disconnected
△		Green Flash	Power imported from grid
爱		Green Solid	Power exported to grid
/ \		Yellow	Grid warning
		Red	Grid fault

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Communication Interface Pin Definition

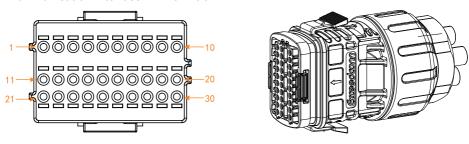


Figure 2.3.2 - RX-7000HY/5000HY Communication interface

Table 2.3.2 - Diagram elements explained

Pin	Group	Definition	Pin	group	Pin
1	A1	Dry contact 1 Public	16	В8	DRM0-
2	A2	Dry contact 1 open	17	В7	DRM0+
3	A3	Dry contact 1 close	18	В6	GND
4	A4	Dry contact 2 Public	19	B5	485C-
5	A5	Dry contact 2 open	20	В4	485C+
6	A6	Dry contact 2 close	21	D1	Switch input negative
7	1 1		22	D2	Switch input positive
8	B1	485D+	23	D3	CT+
9	B2	485D-	24	D4	CT-
10	ВЗ	GND	25	D5	reserved
11	C1	BMS_CAML	26	D6	reserved
12	C2	BMS_CANH	27	D7	reserved
13	C3	GND	28	D8	reserved
14	C4	BMS_485A+	29	D8	reserved
15	C5	BMS_485A-	30	D10	reserved

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2.4 Technical Data

Figure 2.3.2 - RX-7000HY Technical information

Internal on/off grid switch		RX-7000HY	RX-5000HY			
Nemail on/off grid switch Yes Yes Yes Operating temperature range 20°C to +50°C 20°C to +50°C to +50°C 20°C to +50°C to +50°C 20°C to +50°C	GENERAL		1.2.000011			
Operating temperature range 20°C to +50°C -20 C to +50 C Display/indicators LED indicators LED indicators Cooling Corvection Convection Size W"H"T 620mm X 400mm X 162mm 620mm X 400mm X 162mm Weight 35KG 35KG IP rating IP65 IP65 Protective Class Class I Class I Altitude <2000 m		V	\v			
Display/indicators LED indicators LED indicators Cooling Convection Convection Size W*H*T 620mm X 400mm X 162mm 620mm X 400mm X 162mm Weight 35KG 35KG IP rating IP65 IP65 Protective Class Class I Class I Altitude <2000 m	<u> </u>					
Cooling Convection Convection Size W*H*T 620mm X 400mm X 162mm 620mm X 400mm X 162mm Weight 35KG 35KG IPrating IP65 IP65 Protective Class Class I Class I Altitude <2000 m						
Size W*H*T 620mm X 400mm X 162mm 620mm X 400mm X 162mm Weight 35KG 35KG IP rating IP65 IP65 Protective Class Class I Class I Altitude <2000 m	· •					
Weight 35KG 35KG 35KG 1P rating 1P65						
Prating						
Class Class Class Class Class Altitude						
Altitude						
Over Voltage Category AC:OVC III DC:OVC II Others: OVC I AC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC III DC:OVC II Others: OVC II AC:OVC III DC:OVC II						
DC,AC:DVC C,other ports: DVC A DC,AC:DVC C,other ports: DVC A Active anti-islanding method Reactive disturbance Non-isolated SkW						
Active anti-Islanding method Reactive disturbance Reactive disturbance Inverter Topology Non-isolated Non-isolated GRID Rated Output Power 7kW 5kW Voltage range 175~280Vac 175~280Vac Rated line frequency 50Hz/60Hz ±10% 50Hz/60Hz ±10% Rated Output current 30.5Aac 22Aac Max AC current 34A 34A Total THD <2%						
Non-isolated Non-isolated Non-isolated SkW		'	·			
GRID Rated Output Power 7kW 5kW Voltage range 175~280Vac 175~280Vac Rated line frequency 50Hz/60Hz ±10% 50Hz/60Hz ±10% Rated Output current 30.5Aac 22Aac Max AC current 34A 34A Total THD <2%		Reactive disturbance	Reactive disturbance			
Rated Output Power 7kW 5kW Voltage range 175~280Vac 175~28		Non-isolated	Non-isolated			
Voltage range						
Rated line frequency 50Hz/60Hz ±10% 50Hz/60Hz ±10% Rated Output current 30.5Aac 22Aac Max AC current 34A 34A Total THD <2% <2% <2% Load regulation <3% <3% Output power factor 0.8 leading - 0.8 lagging 0.8 leading - 0.8 lagging lnrush current 80A 80A Max output fault current 80A 80A 80A Max output overcurrent protection 35A 35A LOAD OUTPUT Output power (with battery only) 5kW 5kW Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV Rated Power 5kW 5kW Rated voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV Rated Power 5kW 5kW Rated Power 5kW 5kW Rated Power 5kW 5kW Rated Power 5kW 5kW SkW SkW SkW SkW SkW SkW SkW	<u>'</u>		-			
Rated Output current 30.5Aac 22Aac Max AC current 34A 34A Total THD <2%						
Max AC current 34A 34A Total THD <2%	Rated line frequency	50Hz/60Hz ±10%	50Hz/60Hz ±10%			
Total THD <2%	Rated Output current	30.5Aac	22Aac			
Coad regulation C3% C3%	Max AC current	34A	34A			
Output power factor 0.8 leading - 0.8 lagging 0.8 leading - 0.8 lagging Inrush current 36A 36A Max output fault current 80A 80A Max output overcurrent protection 35A 35A LOAD OUTPUT Output power (with battery only) 5kW 5kW Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV 5kW 5kW Rated Power 5kW 5kW Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated Power 5kW 5kW	Total THD	<2%	<2%			
Inrush current 36A 36A 36A 80A 80A 80A 35A 35A 35A 35A 20A 20Arms 20Arms 20Arms 20Arms 20Arms 24A 20Arms 20Arms 20Arms 20Arms 24A 20Arms 20Arms 25W 20V 20	Load regulation	<3%	<3%			
Max output fault current 80A 80A Max output overcurrent protection 35A 35A LOAD OUTPUT Output power (with battery only) 5kW 5kW Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV 5kW 5kW Rated Power 5kW 5kW Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW	Output power factor	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging			
Max output overcurrent protection 35A 35A LOAD OUTPUT Output power (with battery only) 5kW 5kW Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV 5kW 5kW Rated Power 5kW 5kW Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated Power 5kW 5kW	Inrush current	36A	36A			
LOAD OUTPUT Output power (with battery only) 5kW 5kW Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV 5kW 5kW Rated Power 5kW 5kW Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Max output fault current	80A	80A			
Output power (with battery only) 5kW 5kW Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% DC BUS HV 5kW Rated Power 5kW 5kW Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Max output overcurrent protection	35A	35A			
Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV 5kW 5kW Rated Power 5kW 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	LOAD OUTPUT					
Rated output voltage (off grid) 230V (220/230/240 settable) 230V (220/230/240 settable) Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV 5kW 5kW Rated Power 5kW 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Output power (with battery only)	5kW	5kW			
Frequency (off grid) 50Hz/60Hz ±0.01Hz 50Hz/60Hz ±0.01Hz Rated output current 22Aac 22Aac Max AC current 24A 24A Max efficiency (battery to AC output) 96.00% 96.00% DC BUS HV 5kW 5kW Rated Power 5kW 5kW Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc		230V (220/230/240 settable)	230V (220/230/240 settable)			
Rated output current 22Aac Max AC current 24A Max efficiency (battery to AC output) 96.00% DC BUS HV Rated Power 5kW Rated voltage 307.2Vdc Max voltage Range 250~360Vdc Max current 20Arms BAT LV Rated Power 5kW 5kW 42~60Vdc		50Hz/60Hz ±0.01Hz	50Hz/60Hz ±0.01Hz			
Max efficiency (battery to AC output) 96.00% DC BUS HV Rated Power 5kW 5kW Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Rated output current	22Aac	22Aac			
DC BUS HV Rated Power 5kW 5kW Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Max AC current	24A	24A			
DC BUS HV Rated Power 5kW 5kW Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Max efficiency (battery to AC output)	96.00%	96.00%			
Rated voltage 307.2Vdc 307.2Vdc Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 42~60Vdc	DC BUS HV					
Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Rated Power	5kW	5kW			
Max voltage Range 250~360Vdc 250~360Vdc Max current 20Arms 20Arms BAT LV 5kW 5kW Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc	Rated voltage	307.2Vdc	307.2Vdc			
Max current 20Arms BAT LV Rated Power 5kW Rated voltage range 42~60Vdc 42~60Vdc						
BAT LV Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc						
Rated Power 5kW 5kW Rated voltage range 42~60Vdc 42~60Vdc						
Rated voltage range 42~60Vdc 42~60Vdc		5kW	5kW			
MAX CHAIDED ISCHAIDE CHITCH TITTADO TITTADO TITTADO	Max Charge/Discharge Current	115Adc	115Adc			

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	RX-7000HY	RX-5000HY			
DC BUS LV					
Rated Input Power	2kw	2kw			
Normal input voltage range	42~60Vdc	42~60Vdc			
Max current	40Adc	40Adc			
PV INPUT					
Number of MPPTs	3	3			
Rated Input Power	2500W	2500W			
Max input power	3000W	3000W			
Max input voltage	550Vdc	550Vdc			
Normal input voltage	320Vdc	320Vdc			
Start-up voltage	120Vdc	120Vdc			
Initial feeding voltage	150Vdc	150Vdc			
MPPT voltage range (full load)	120dVdc~530Vdc (250Vdc~450Vdc)	120dVdc~530Vdc (250Vdc~450Vdc)			
Max input current	15Adc	15Adc			
PV short circuit current	20Adc	20Adc			
Backfeed current to PV array	0A	0A			
PROTECTION FUNCTIONS					
Islanding protection	YES	YES			
Anti-backflow	YES	YES			
DC reverse connection protection	YES	YES			
AC output short circuit protection	YES	YES			
DC fuse (battery side)	YES	YES			
Overcurrent protection	YES	YES			
Over-temperature protection	YES	YES			
COMMUNICATION					
RS485_A&CAN	YES	YES			
RS485_B	WIFI/4G/BLUETOOTH	WIFI/4G/BLUETOOTH			
RS485_C	Meter/Turbine/EV	Meter/Turbine/EV			
RS485_D	Parallel/Reserved	Parallel/Reserved			
СТ	External CT	External CT			
Dry_contact_1	External DPDT switch	External DPDT switch			
Dry_contact_2	Generator	Generator			
Digital input	Turn on/Turn off (5V,0.1A)	Turn on/Turn off (5V,0.1A)			
DRM0	DRM0	DRM0			
STANDARDS					
Safety standard	IEC 62109-1; IEC 62109-2;IEC62040	IEC 62109-1; IEC 62109-2;IEC62040			
EMC atandard	EN 61000-6-1, EN 61000-6-2	EN 61000-6-1, EN 61000-6-2			
EMC standard	EN61000-6-3,EN61000-6-4	EN61000-6-3,EN61000-6-4			
Grid connection standard	AS4777.2	AS4777.2			

2.5 Product Features

- a. Backup power supply
- b. Compatible with various application scenarios
- c. Intelligent management
- d. Remote scheduling
- e. Multiple protection

3 Installation

Storage

Store the packaged unit properly when the unit is not installed immediately

- Store the unit in the original packaging box
- Storage temperature should be always between 0°c and 50°c+
- · The packaging box should be upright.

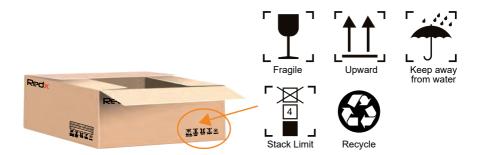


Figure 3.0.1 - RX-7000HY/5000HY packaging

Scope of Delivery

Please check the condition of the packing before unpacking. If any parts are damaged or missing, contact your local supplier for help.

The battery power cables and battery communication cables are included in the inverter box. The communications connector will be pre-assembled to connect the inverter to smartmeters and batteries.

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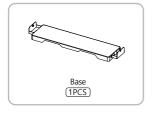




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Figure 3.0.2 - RX-7000HY/5000HY components

RX-7000HY/5000HY Base components



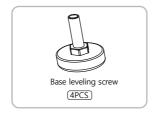
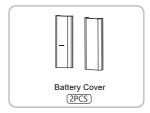


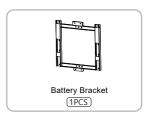


Figure 3.0.3 - RX-7000HY/5000HY base components

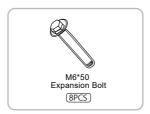
RX-0050 Accessories









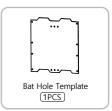


















Note: Extra Long Stack to Stack cables are sold separately to customers who purchase >15kWh storage options.

Figure 3.0.4 - RX-7000HY/5000HY Accessories

3.1 Installation Preparation

- a. Not to be installed in direct sunlight. Product is designed for indoors. Vertical mounting only.
- b. Install in a ventilated location. There must be enough clearance to ensure that the module operates in the optimal heat dissipation state.
- c. Install at suitable distance from any restricted areas, please review Standard ASNZS5140.
- d. Install on a sturdy supported surface.
- e. The location must fit the weight and size of the module.
- f. The environmental temperature must be between -20 $^{\circ}$ C to +50 $^{\circ}$ C, and the relative humidity between 0% and 90% (without condensation)
- g. Location shall be dry with adequate air flow (Pollution Degree < PD3) .
- h. Installation is prohibited to in any of the following environments

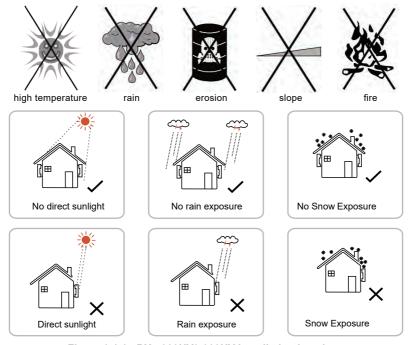


Figure 3.1.1 - RX-7000HY/5000HY Installation locations

- a. The minimum clearance on the sides must be maintained at least 300mm.
- b.Installation location of the inverter should be easy for operator to turn off at any time.
- c.Do not install the inverter near signal transmitters / antennas.
- d.Do not install the inverter in the living area.
- e.Do not install the inverter at location where children can easily access.

3.2 Installation Tools

Prepare the following tools before installation:

Figure 3.2.1 - RX-7000HY/5000HY Installation tools

Туре	Tool			
	Packaging tape	Marker	Measuring tape	Level
General tools	Utility knife	Multimeter Measurement range: ≥ 1100Vdc	Protective clothing	Wrist strap
	Protective gloves	Dust mask	Ear protection	Eye protection
	Insulated shoes	Vacuum cleaner		
	Hammer drill with φ8mm bit	Rubber mallet	Slotted screwdriver	Phillips screwdriver Specification: M4, M6
Installation tools	Wire stripper	Hydraulic crimper	Crimping pliers	Combination pliers
	RJ45 crimping pliers	Hammer drill	Bootlace ferrule crimper	

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4 Installation Guide

4.1 Mounting Guide

Avoid water and electricity when drilling, bit size φ8mm, drilling depth 40mm.

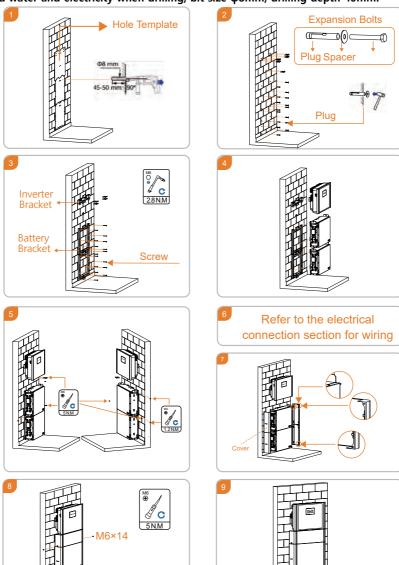


Figure 4.1.1 - RX-7000HY/5000HY Mounting information

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5 Electrical Connection



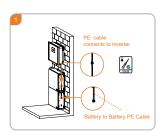
An independent circuit breaker must be configured for each power interface.

The table below is a recommendation for cable selection and the Recommended specifications of circuit breaker. Engineers should refer to local standards to select cables. Cable length is generally 2 to 10 meters, long cable will lead to voltage deviation from the rated value, consequently requiring an increase of the cross-sectional area.

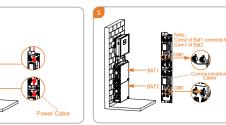
Power interface	Circuit breaker Suggestion	Cross-sectional area (mm2)
LOAD	>25A	≥4 mm2
GRID	>35A	≥6 mm2
PV	>12A	≥3.2 mm2
56V Auxiliary DC	>40A	≥6 mm2

Note: for details about the electrical connection, see Figure 2-1.b,c,d.

5.1 Battery Connection



Battery Connection



Note: Com1 of Bat1 connects to inverter communications port.

Figure 5.1.1 - RX-7000HY/5000HY Multiple battery interconnection

5.2 Port Instructions

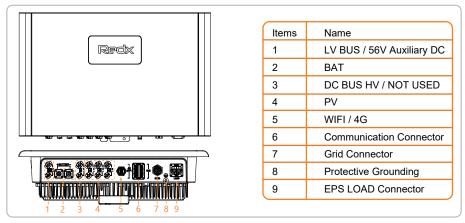


Figure 5.2.1 - RX-7000HY/5000HY Port Instructions

5.3 Earth Connection

A secondary protection grounding terminal is added for the system. Ensure that the grounding resistance is less than 10 Ω and the grounding cable diameter is greater than 6 mm².

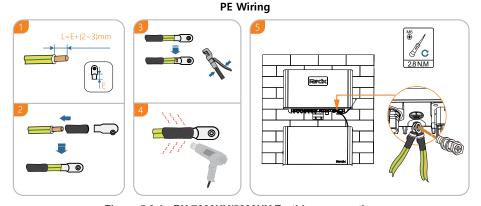


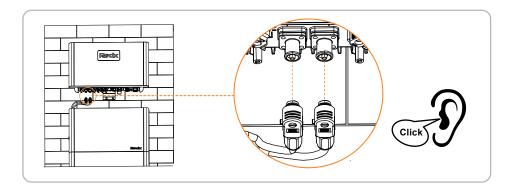
Figure 5.3.1 - RX-7000HY/5000HY Earthing connection

Note: If the array insulation resistance to ground is less than 18 $K\Omega$, the inverter will turn on a red LED light Inspect and report ISO Fault on APP. This inverter complies with IEC 62109-2 clause 13.9 for earth fault alarm monitoring. The inverter is not compatible with functionally earthed PV arrays. (AS/NZS 5033)

5.4 Battery Power Cable Wiring



Note: you will hear a 'Click' sound if the battery connector is connected correctly. When removing a battery cable, press the button on the cable terminal.



5.5 PV Connection



Note: DC BUS LV (56V Aux DC) , DC BUS HV (NOT USED), PV, are three different terminals.

The RX-7000HY/5000HY is equipped with 3 independent MPPT (maximum power tracking) PV inputs, each MPPT with a maximum power of 3kW. Make sure the PV input open-circuit voltage does not exceed 550V. Generally, the open circuit voltage of PV is about 15% higher in winter (-20 $^{\circ}$ C) than in summer (30 $^{\circ}$ C).

Earth Fault Alarm

The inverter complies with IEC 62109-2 clause 13.9 for earth fault alarm monitoring. If an Earth Fault Alarm occurs, the fault "PvIsoFault" will be displaued on the LCD screen, the red light will be on. and the fault can be found in the history of device fault log. Devices that are connected to the Internet with Wi-Fi/4G, the alarm information will be shown on the monitoring website www.redxpower.com, and also will be displayed in the Redx Power app.

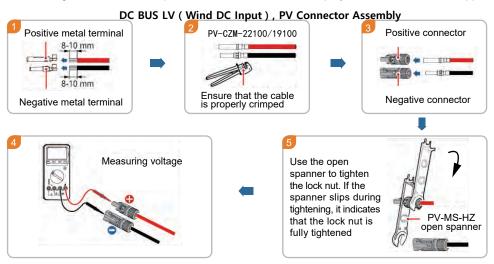


Figure 5.5.1 - PV connector

The 56V Aux DC source and PV Arrays can be installed according to the needs of customers.

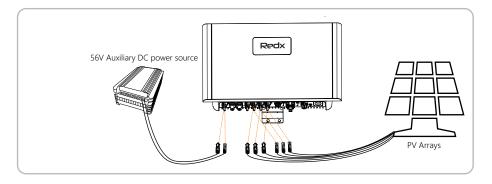
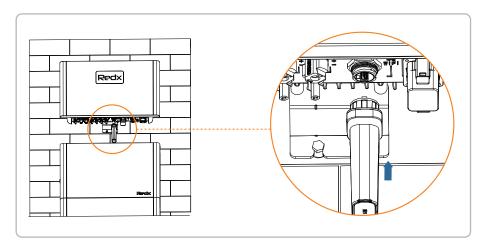


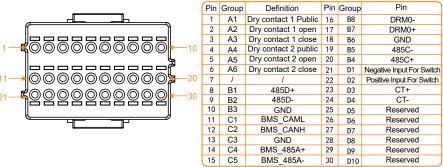
Figure 5.5.2 - RX-7000HY/5000HY PV and 56V Aux DC connection

The auxiliary DC power source output must be 56V.

5.6 WiFi/4G Dongle



5.7 Communication Connection



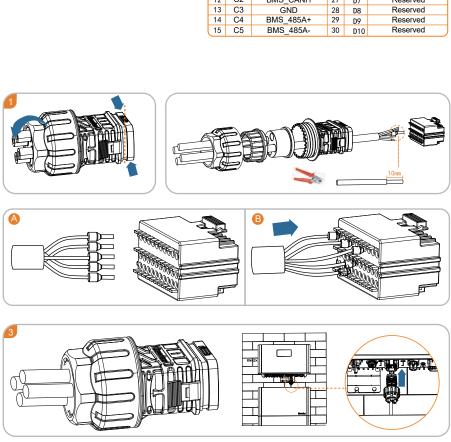


Figure 5.7.2 - RX-7000HY/5000HY Communication connector

5.7.1 Battery 1 to Inverter communication connector pin definition

	Table 5.7.1 - RX-7000HY/5000HY Communication connector			
	Pin	Group	Definition	
11-0000000000	-20 11	C1	BMS_CAML	
	12	C2	BMS_CANH	

5.7.2 CT/METER Connection

The CT/METER is used to monitor the status of the energy consumption.

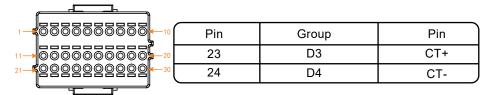


Figure 5.7.2 .1- RX-7000HY/5000HY Communication connector CT pins

CT cable specifications: if the cable is not long enough, add an extension cable (max 10m), contact the local supplier in advance. The cable cores CT+/485+ and CT-/485- will connect to the respective 485+ and 485- terminals on the smartmeter.

The direction of CT installation as shown in Figure 5-7.2.2 The arrow direction on the CT must point to the power grid.

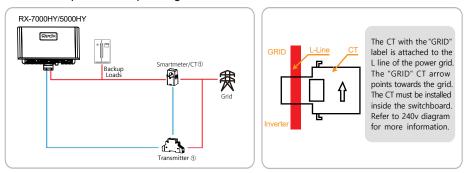


Figure 5-7.2.2 CT and smartmeter diagram

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As shown in figure 5-7.2.2 an arrow indicating the direction of the CT, pass cable through the hole of the CT then lock the CT.

The RS-485 communication connection is shown as follows:

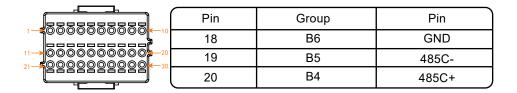


Figure 5.7.2.3 - RX-7000HY/5000HY Communication connector 485 pins

5.7.3 Connection of DRM0 Terminal (Australia Only)

When RX-7000HY/5000HY is installed in some states in Australia, the DRMS terminal needs to be connected. The connection method is as follows:

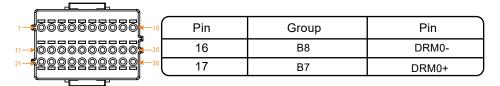


Figure 5.7.3 - RX-7000HY/5000HY Communication connector DRM pins

5.8 Grid Connection

Requirements

- 1.Install an AC circuit breaker between the inverter and the grid, before connecting the system to the grid.
- Grid voltage and grid frequency should be within the allowable range of inverter operation.

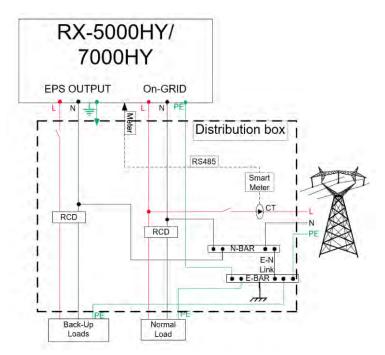


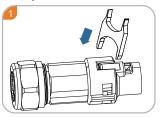
Figure 5.8.1 - RX-7000HY/5000HY 240V electrical connection with EPS

Note:

The battery inverter does not have an internal RCD as it is isolated. If an external RCD breaker is mandatory in the country of installation, it must be a type A RCD with the rating residual current not more than 30mA.

- 1. If you need to use both the grid and backup power functions, refer to Figure 5.8.1 for connection details.
- The grid terminal and EPS terminal cannot be directly connected together, otherwise the system will be damaged.
- The inverter can work in off-grid without grid input, in this situation only use the EPS Load port. PV or other DC input will be required.

Steps



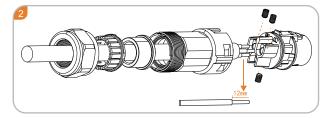
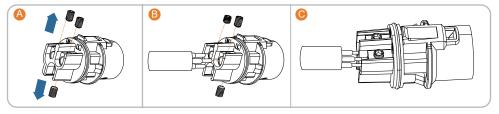


Figure 5.8.2 - RX-7000HY/5000HY Grid connector



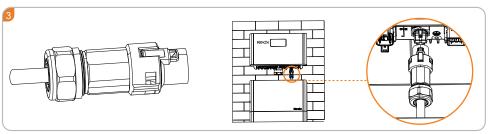


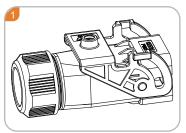


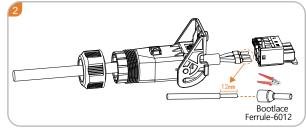
Figure 5.8.3 - RX-7000HY/5000HY Grid connector assembly

Note: for details about the electrical connection, see Figure 2-1.b,c,d.

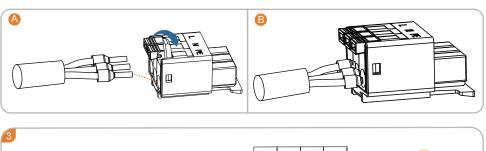
- 1.The GRID terminal and off-grid (EPS LOAD) terminal cannot be connected together, otherwise the system will be damaged.
- The battery needs to be activated by grid/PV power when the system starts for the first time.

5.9 EPS Load Connection





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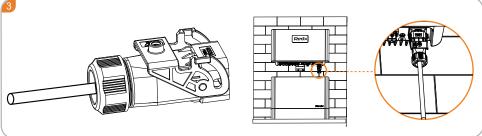


Figure 5.9.1 - RX-7000HY/5000HY EPS connector assembly



Do not connect the port to other power supplies. Otherwise, the inverter may be damaged, causing risks.

6 Operation

6.1 Checklist Before Operation

- Check whether the system is firmly installed, and the installation position is easy for operation and maintenance.
- All cables are correctly connected, properly distributed, and well protected, and no mechanical damage is caused.
- 3. The selection of AC circuit breakers is correct.
- 4. The wiring terminals are securely installed, and the vacant terminals are sealed.
- 5. All safety signs and warning labels on the system are firmly and clearly visible

6. The installer must select the correct regional settings for the inverter. The installer will be able to select the correct regional settings in the app during commissioning. Selecting the customer's relevant Grid Operator will automatically allocate and lock the relevant Regional settings, the settings will now be password protected. Alternatively the installer can login to www.redxpower.com with their installer credentials. Then they must navigate to Devices page, find their device by typing in the device serial number in the search field, then click on the device serial number and select the correct region in the Deploy section. The installer can also edit the Generation and Export Limit Control Settings and Power Quality Response Mode settings on the Deploy page which are also password protected. The installer can request the password from Redx.



Figure 6-1 - Export Soft and Hard Limit settings on Deploy page

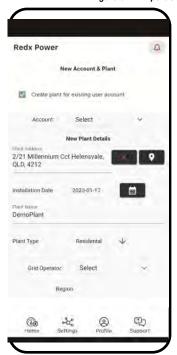




Figure 6-2- Region selector in the Redx Power App

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6.2 Operation Checks

- 1. Confirm that the above checklist meets the guideline.
- 2.Turn on all circuit breakers
- 3.After the AC circuit breaker is turned on and the LED on the system is on, perform the following tasks:
- (a) If the LED indicator does not light up, check if voltage is present on grid input terminals. If there is voltage on the grid terminals, but unit is still not illuminating the LEDs- please contact local Redx dealer.
- (b) Install the Redx Power APP or open web page according to the attached instructions, and then configure the WIFI connection.
- (c) Turn on the battery circuit breaker on the side of the system.
- (d) Press the power button on the side of the system, then the system is in passthrough state and EPS port has output.
- (e) Set the needed parameters through the web or APP. The battery LED indicator on the panel lights up, and the other LED indicators will light up according to the actual working status.
- (f) If the operation fails, troubleshooting fault by referring to Chapter 8 in this manual **Note**: Use grid and the App to activate the battery for the first-time operation.

6.3 Operation Modes

6.3.1 Operating Modes

The 7000HY/5000HY unit has 3 main modes: Auto, VPP or Timed mode. The default is VPP mode, most units should be configured as Auto mode. The Auto mode includes on- grid and off-grid functionality. By default the Anti - backflow function is enabled. If the anti-backflow function is enabled, then the system will not export power to the grid.

A. On Grid Functionality

1. VPP Mode

The unit works according to the commands sent from the cloud platform. When the cloud platform sends a discharge command, the inverter starts to discharge power from pv/ battery to grid/loads at the set level. When the cloud platform sends a charge command, the inverter starts to charge the battery from grid/pv at the set level.

2. Auto Mode

The unit automatically adjusts the output and charging and discharging status according to smartmeter readings. The energy of the PV will first supply power to the load and use the extra power to charge the battery, any excess will be sent to the grid if Anti-backflow is disabled. If the PV is not enough to cover the load, both the PV and the battery will supply power for the load.

3. Timed Mode

The charging and discharging of the battery can be customized with the set powers within the set times.

B. Off - Grid / EPS Functionality

When the power grid is cut off, the system will automatically switch to off-grid mode. The system will supply power to the load from the battery via the EPS terminals. Note: in off-grid mode, the maximum system output power using only the battery is 5000W, meaning the load power of the EPS circuit should not exceed 5000W. When the system detects a low battery status, the battery will stop discharging automatically and will be charged if there is solar or other power supplied.

6.3.2 Fault State

The RX-7000HY/5000HY has a smart control system that continuously monitors and regulates system status. When there is a system fault or equipment fault, fault information will be displayed on the web page /APP, and the LED light will also be on in fault mode.

Notes:

- (1) For details about fault information, see Chapter 9.
- (2) The fault details inform users of internal faults' possible reasons and rectifications.

6.3.3 Firmware Update

When the system is upgrading firmware, do not power off the unit. When the upgrade is complete, the system will automatically revert to normal working mode.

6.3.4 Self-check Status

Before entering normal operation mode, RX-7000HY/5000HY will enter self-check mode. If all checks pass successfully, the system will return to normal working mode; otherwise, the system goes into the fault state.

6.3.5 Standby Status

When the system does not fault but certain operating conditions are not met, the system will turn to standby mode.

6.3.6 Protection Mode

Connecting an oversize load to the EPS terminal will trip the unit and trigger protection mode. The unit will try to restart 3 times, if the load is still present, the unit will revert to protection mode. Remove the oversize load and restart the unit. If any circuit breakers have tripped – contact your installation partner.

6.3.7 Shutdown Status

Disconnect all power supply, turn everything off and the system will automatically enter the Off state. The specific steps are as follows:

- 1. Turn off the power button
- 2. Turn off the battery switch
- Disconnect the grid supply, the LED light and the battery power display LED light will be turned off.

6.4 Communication

The Redx unit has an external data collector, users can choose either WIFI or 4G dataloggers according to their requirements, and use their computer or mobile phone APP (Redx Power) to monitor the inverter and battery status. The default datalogger in the device uses Wi-Fi to connect to the customer's Wi-Fi router to establish an Internet connection. The installer will use Bluetooth to connect to the datalogger and configure the device to connect the datalogger to the local Wi-Fi router during the installation process.

7 RX-7000HY/5000HY System Turn On and Turn Off

7.1 Turn on RX-7000HY/5000HY

You can perform the following steps to start the RX-7000HY/5000HY:

- (1) Turn on the AC and all other relevant circuit breakers.
- (2) Turn on the battery circuit breaker.
- (3) Turn on the power button.
- (4) When the LED display is normal, the system starts normally.

7.2 Turn off RX-7000HY/5000HY

- (1) Turn off the power button.
- (2) Turn off the battery circuit breaker.
- (3) Turn off the AC and all other relevant circuit breakers.
- (4) When the LED display is off, the system is completely off.
- (5) Wait at least 60 seconds before performing further operations.

8 Troubleshooting & Maintenance

8.1 Troubleshooting

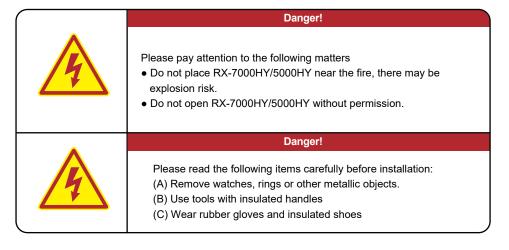
Once a fault occurs in the storage unit, the fault information will be displayed on the APP/web interface

Fault information	Fault reason	Suggestion		
The battery connection error	No battery is detected	If the battery is connected 1. Check whether the battery cable is securely connected and whether the battery voltage is normal. 2. If the error message remains, contact installation partner.		
Battery under voltage or over voltage	If the battery voltage is abnormal, the internal circuit protection is triggered	 Check whether the battery is correctly connected and whether the battery voltage is normal. Make sure the battery is in good condition and restart the module. If the error message remains, contact installation partner. 		
No grid	No grid is detected	If the grid is connected 1. Check whether the grid terminal is firmly connected and the grid voltage is normal; 2. If the error message remains, contact installation partner.		
DC Bus under-voltage	The input is suddenly disconnected	When the fault is recovered, the inverter will automatically return to normal working state; If the external environment does not change and the alarm remains after the system is restarted, contact installation partner.		
DC Bus over-voltage	The rapid change of power grid voltage may cause high energy input to the inverter. Internal dc-dc converter or charging electronics may have a fault.	1. After the fault error is recovered, the inverter automatically restores to the normal working state. 2. If the fault remains, contact installation partner.		
Inverter overvoltage	The output voltage of the inverter is out of the	Check whether the external load exceeds the specification range of the inverter. After the fault is recovered, the inverter automatically		
Inverter undervoltage	range.	recovers to the normal working state. 2. If the alarm is repeated, contact installation partner.		

Islanding protection		Check whether the AC circuit breaker of the grid is disconnected and whether the connecting cables are securely connected. Check whether the grid has power. If all conditions are correct and the fault still occurs, contact installation partner.		
Grid overvoltage	When the grid detects an error, the inverter	1. Check the grid voltage or frequency; If the power grid voltage or frequency exceeds the allowable range of converter protection parameters, please report to the power grid company. 2. If the power grid voltage or frequency is within the permissible range, contact the installation partner.		
Grid under voltage	automatically switches to the off-grid mode. When			
Grid over frequency	the error disappears, the inverter automatically			
Grid under frequency	resumes to the grid mode			
Battery over current	The charge and discharge current of the battery is too high	Check whether the battery voltage and capacity exceed the allowable range of the inverter. If the alarm is repeated, contact installation partner.		
Relay fault	Detect the fault of relay	Wait for the inverter to recover automatically. If the alarm is repeated, contact installation partner.		
Bus soft start failed	Bus voltage setup timeout	Wait for the inverter to recover automatically. If the alarm is repeated, contact installation		
The inverter soft start failed	Inverter output setup timeout	partner.		
Inverter phase lock failure	Inverter phase lock fault	Wait for the inverter to recover automatically. If the alarm is repeated, contact installation partner.		
EEPROM read failure	EEPROM read fault	Disconnect power and restart the system; If the error remains, contact installation partner.		
Fan fault	The fan is faulty	Check whether the fan runs properly. Power off to restart the module; If the error message still exists, contact installation partner.		
The grid is connected to the EPS terminals The AC input and load output cables are incorrectly connected		Shut down the inverter and turn off all circuit breakers. Check whether the AC input cable (power grid cable) is connected to the load (EPS) output terminal. If the connection is incorrect, reconnect the cable. If the error message persists, contact installation partner.		

Output overload	Overloaded outputs	Remove some loads. Ensure that the load is smaller than the maximum output power of the inverter. Restart the inverter.	
Radiator over temperature	The inverter installation location is not ventilated. The ambient temperature is too high. The fan is faulty.	Check whether the operating environment exceeds the operating temperature range of the inverter. If yes, improve the operating environment. Check whether the fan is in good condition.	
The communication between the host computer is error	1.The address and baud rate are incorrectly set.	Check the communication address and baud rate Settings (please change the baud rate to 2400). Communication address and baud rate to 2400.	
DSP communication error	2.The communication cable is loose.	Check whether the communication cable is loose. Contact installation partner.	
Grid Short Circuit	The AC input is short circuit.	Check whether the AC input cable of the inverter is short-circuited. If the error message persists, contact installation partner.	
Load short circuit	Output short circuit.	Remove load. Restart system.	

8.2 Maintenance





The repair of the battery should be carried out or supervised by personnel with battery knowledge and necessary precautions. Do not mix batteries of different types and capacities, please use all batteries of the same model. If the inverter is not used for more than 7 days, turn off the AC input, PV input, and battery input switches.

If it has not been used for more than 3 months, turn on the AC input switch (or PV switch) and battery switch, and start the system to replenish the battery once.

Maintenance of batteries should be carried out or supervised by authorized personnel and necessary protection measures should be taken. Do not mix batteries of different types and capacities. All the battery should be the same model.

If the inverter is not in use for more than seven days, turn off the AC input, PV input, and battery input switches.

If it has not been used for more than 3 months, turn on the AC input switch (or PV switch) and the battery switch to start the system to recharge the battery once.

8.3 Routine Maintenance

Item	Method	Period	
System Clean	Check the temperature and dust of the Storage Unit. Clean the unit enclosure if necessary.	Six Months to a year	
Cable Entry	Check whether the cable entry is insufficiently sealed or the gap is excessively large; and reseal the entry when necessary.	Once a year	
Electrical Connection Check whether all cables are firmly in place. Check whether a cable is damaged (rodents. Physical damage, weather etc).		Once a year	

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9 Redx Power App

The Redx Power APP can establish communication connection to the energy storage unit via Bluetooth / WIFI and or 4G (optional) network. Users can use the APP to view basic information, alarms, and events, set parameters, or download logs etc. The APP manual can be found on redx.com.au/downloads

Note: Install the APP or open web page according to the attached instructions, and then configure the WIFI connection. The last page of the manual has a QR code to install the App.

10 Quality Assurance

When a product faults during the warranty period. REDX will repair or provide a replacement product.

Evidence

During the warranty period, the customer shall provide the product purchase invoice and date. Since the date of purchase by the user from Redx (hereinafter referred to as the manufacturer), the user will enjoy the following after-sales warranty service

- 1.A 10-year warranty commences from the date of shipment from, during the warranty period the company provides free repair or replacement of new products.
- 2. Any paid service (extended warranty) is available from the date of shipment from manufacturer.
- 3.Disclaimer: Product faults caused by the following reasons are not within the scope of the manufacturer's 10 years warranty commitment:
 - (a) The user does not perform the correct operation according to the procedures listed in the product specification.
 - (b) Repairing the product without communicating with the manufacturer or changes the product without permission, resulting in product failure.
 - (c) Users not following the standards.
 - (d) The fault of the module caused by unsuitable environment.
 - (e) Due to earthquake, fire, natural disasters, lightning strike, abnormal voltage raise, ionizing radiation or other natural disasters caused by external factors.

- 4.Under the following circumstances, the manufacturer has the right not to provide warranty service.
 - (a) Brand, trademark, serial number, nameplate and other marks marked by the manufacturer in the product are damaged or cannot be identified.
 - (b) The customer fails to pay off the products according to the Purchase and Sales Contract signed by both parties.
 - (c) The user intentionally conceals the improper use of the product during installation, wiring, operation, maintenance or other processes to the after-sales service provider of the manufacturer.

*Redx reserve the right to change the contents of this specification and product performance without informing users.

11 Appendix

11.1 Optional Accessories

The following table lists the optional accessories of the system, contact the manufacturer or distributor for further information

Name	Notes / Purpose
Data Collector	Data Collector (Wi-Fi)
Data Collector	Data Collector (4G)
СТ	Current Transformer
Smart Meter	Single phase smart meter

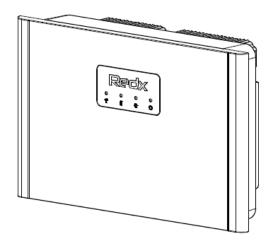
Note: The anti-backflow function requires a smartmeter or CT.

12 Contact

If you have any questions about our products, please contact our service hotline or dealers. please provide the following information when inquiring:

- 1.System serial number
- 2.System model
- 3.Fault code/Name
- 4.Briefly describe the fault symptom

This image should be after Contact paragraph





For more information, please scan QR code or visit www.redx.com.au



Download the Redx App with the above QR Code





Address: Unit 2/21 Millennium Circuit, Helensvale, QLD Australia 4212

Website: www.redx.com.au Email: info@redx.com.au Tel: +61 7 5672 9983

Specifications are subject to changes without advance notice.