

# Residential ESS ENEREX R05xxH

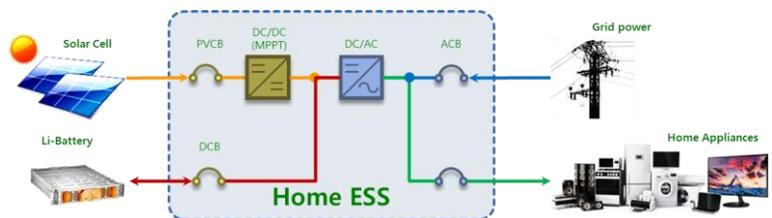
Providing Photo-voltaic generation and energy storage functions, the **ENEREX Residential ESS** can be easily installed in any place in house with minimum space.

**ENEREX Residential ESS** is optimized to house has small PV panel and provides efficient and reliable auxiliary power system solution.

## Features

- Integrated hybrid system including PV input and battery terminal realize single panel energy storage system solution without PV inverter.
- Low operation cost – high round trip efficiency by 88% (including battery).
- Easy installation in home – living room, balcony, boiler room and etc.
- Can select priority of PV generated energy to energy saving and output to load.
- Power being supplied to load during battery has energy in spite of power fail.
- Convenient diagnostic functions - by built-in HMI, full protective functions, status monitoring and fault/alram detection and log data.
- Easy to monitor, control, data backup and maintenance by Ethernet connection.

## PV integrated residential energy storage system can be automated operation.



## Target market & applications

- Stand alone residential house or apartment PV panel installed.

## Product type

- PCS
- Battery\*
- Transformer
- Switch board

## All-in-one System

- 5kW (1 rack)
- 5/ 10/ 15kWh (1 rack), Ferric Phosphate
- None
- None

## Key specifications

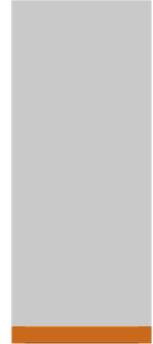
- Capacity: 5kW(PCS) – 5/ 10/ 15kWh(BAT)
- Output: 1ph AC 220V, 50/60Hz
- Form factor: Single panel steel cabinet
- Ambient condition: -10 ~50°C, 95% RH or below (non-condensing)
- Cooling: Forced air-cooled
- Acoustic noise: < 60db
- System efficiency: 96% (DC→AC)
- Protection: IP21 (Indoor installation)

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- Exterior (IP21)



- Production specification

Residential ESS		5kW-15kWh
Product	Model code	RE0515_62HN20 (5kW-15kWh)
Functionality	Applications	Residential Hybrid ESS
AC input (Grid side)	Rated (continuous) power	5 kW
	Voltage & Frequency	1ph AC 170~280V -10%/+15%, 50/60Hz ±5%
	Max. Input Current	40 Arms
	Power factor	> 0.99 (@ Nominal)
	THDi	< 10%
AC output (Load side)	Rated (continuous) power	5 kW
	Voltage & Frequency	1ph AC 220/ 230/ 240V ±5%, 50/60Hz ±0.1%
	Rated Output Current	21 Arms
	Power factor	> 0.99 (@ Nominal)
	THDv	< 5%
Battery	DC-AC conversion efficiency	95%
	Energy Capacity	10 ~ 15kWh
	Input Voltage Range	DC 40 ~ 62V (DC 51V nom)
	OverCharge Protection	DC 62V
	Maximum Charge Current	80 Adc
PV Input (MPPT)	DC-AC conversion efficiency	93%
	Maximum input power	6 kW
	MPPT Voltage range	DC 120 ~ 430V
	Maximum/PV Open-ckt voltage	DC 500V
Common Chrs	Maximum Input Current	40 Adc
	Control system philosophy	Full Digital Control by Microcontroller
	Man-machine interface	7" Full color display panel with touch screen
	Remote control interface	Modbus/TCP, RS232, RS485
Mechanic Chrs	Protective Functions	Grid voltage/Frequency abnormal, Output current unbalance, Battery voltage abnormal
	Dimension (W xH xD) / Weight (Approx.)	800 x 1800 x 240 mm <sup>3</sup> / 150kg
	Max. audible noise	< 60dB
Environment	Enclosure protection rating	IP21 (Indoor installation)
	Operating ambient temperatures	-10 ~ +50 deg C
	Humidity	0 ~ 95% RH-(Non-condensing)
	Max. installation altitude (from sea-level)	1000 m
Compatible Standards	EMC	IEC 61000-6-2, IEC 61000-6-4
	Safety	IEC/ KS C 62477-1