Residential Series

Battery Storage Solutions

FOR EU MARKET







Renon Power

We Care About Sustainability

With our own R&D team and automated production factory, we are dedicated to delivering innovative, reliable, and affordable energy storage solutions to customer globally.

At Renon, we believe that sustainable energy is the future. We are passionate about reducing carbon emissions and preserving our planet for future generations. That's why we invest heavily in research and development, leveraging the latest technologies to design and manufacture energy storage systems that are efficient, scalable, and adaptable.

Our products are designed to meet the needs of a wide range of applications, from residential and commercial buildings to industrial facilities and utility-scale projects. Whether you're looking to reduce your energy bills, increase your energy independence, or support your sustainability goals, Renon has the right solution for you.

Our commitment to quality and customer satisfaction is unwavering. We work closely with our clients to understand their unique needs and provide customized solutions that meet or exceed their expectations. We also provide comprehensive technical support, maintenance, and warranty services to ensure that our customers get the most out of their investment.

JOIN US ON OUR MISSION TO MAKE RENEWABLE ENERGY WITHIN REACH.

PROVIDE INNOVATIVE,
RELIABLE, AND
AFFORDABLE ENERGY
STORAGE SOLUTIONS
TO CUSTOMERS
WORLDWIDE.



Content

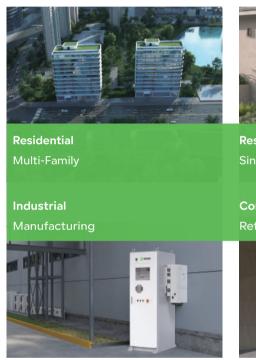
Meeting the highest standards of quality and safety in the global market.

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Industry Application

Renon's energy storage products are extensively applied across residential, commercial, and industrial sectors. With exceptional performance, cutting-edge technology, and efficient energy management, they provide reliable, innovative, and eco-friendly energy solutions, helping global users achieve their sustainability goals.









Detached Housing

Commercial Office Space



As a company that values renewable energy, we are passionate about developing solutions that contribute to a greener, more sustainable future. Our products are designed to reduce carbon emissions and promote environmental conservation.

Products

Featuring straightforward installation and flexible, scalable capacity, these products address a broad spectrum of home energy storage requirements.

LV Battery Storage System



P03 Xtreme LV



P05 Xcellent



P07 Xcellent Plus



P09 EBrick



P11 EBrick-IND

HV Battery Storage System



P13 Xtreme HV 1.0

One-stop Solution



Flex LV-EU 01 Series



P19 Flex LV-EU 03



Flex HV-EU 03



Xtreme LV

Modular LV Battery System

Scalability: The system can be expanded with up to 30 systems in parallel, offering flexibility and future-proofing for growing energy needs.

High Efficiency: Designed for peak shaving and self-consumption, it helps reduce energy bills by optimizing the use of solar power and minimizing reliance on the grid.

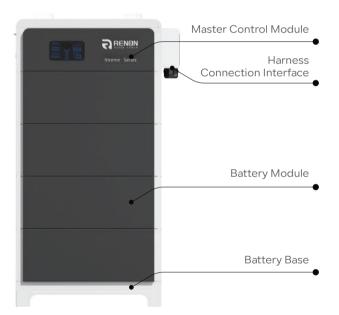
Strong Compatibility: The system is designed to work seamlessly with various inverters and energy management systems, providing flexibility in integration with existing setups.

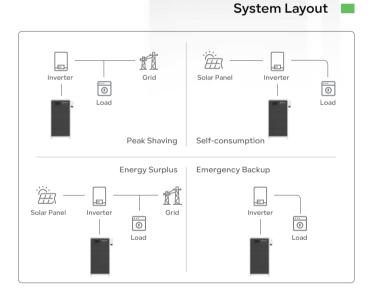
Comprehensive Warranty: Backed by a 10-year warranty, the Xtreme LV system assures long-term peace of mind and protection for the investment.

Wi-Fi Connectivity and APP Control: Enables remote monitoring and management of the energy storage system through a dedicated mobile application, enhancing user convenience and control.



Product Details











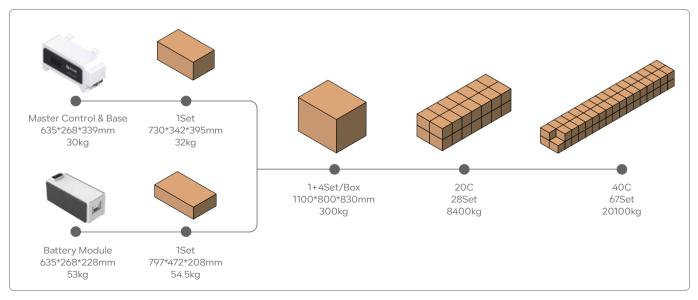
Battery Energy Storage(48/51.2V)	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules
Product Model (48V)	R-XL009021	R-XL014031	R-XL019021	R-XL024021	R-XL028021
Product Model (51.2V)	R-XL010021	R-XL015031	R-XL020041	R-XL025051	R-XL030061
Nominal Energy (kWh)	9.6/10.24	14.4/15.36	19.2/20.48	24/25.6	28.8/30.72
Output Power (kW)	9.1/9.7	13.7/14.6	14.4/15.4	14.4/15.4	14.4/15.4
Max. Operation Current (A)	190	285	300	300	300
Peak for 10s (A)	196	297	392	490	500
Peak for 2s (A)	240	360	480	500	500
Max. Charging Voltage (Vdc)	54.75/58.4				
Discharge Cut-off (Vdc)	40.5/43.2				
Nominal Voltage (Vdc)	48/51.2				
Recommend Charging Voltage(Vdc)	53.25/56.8				
Battery Chemistry			LiFePO4		
Dimension (W*D*H)	635*268*795mm 25*10.6*31.3in	635*268*1023mm 25*10.6*40.3in	635*268*1250mm 25*10.6*49.2in	635*268*1478mm 25*10.6*58.2in	635*268*1705mm 25*10.6*67.1in
Net Weight (Approximate)	139/141kg 306/311lb	192/194kg 423/428lb	245/247kg 540/545lb	298/300kg 656/661lb	351/353kg 773/778lb

General Parameters	
Scalability	Max. 15 systems in parallel
Storage Conditions	–20°C ~ 55°C(0°C ~ 35°C Recommended) Up to 90%RH, non-condensing Initial SoC: 50%
Operating Temperature	Charge: 0°C ~ 50°C Discharge: -20°C ~ 50°C
Cooling	Natural Cooling
Max. Altitude	4000m / 13123ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, WiFi

Master Control Model	R-MC300-XTL01
Battery Model	R-EM51100-XTL01
Battery Compliances	UL1973,UL9540, UL9540A UKCA, IEC 62619, IEC62040 CEI 0-21, UN 38.3, EN-61000, EN-62311
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
IP Rating	IP65
Warranty [1]	10 Years

[1] Please refer to the warranty letter for details

Packaging & Shipping Details



Xcellent

Wall-Mounted LV Battery System

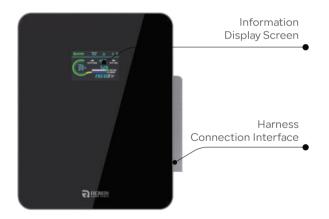
Safe and Stable LFP Technology: The Xcellent series uses Lithium Iron Phosphate (LFP) battery chemistry, known for its safety, stability, and long lifespan, ensuring reliable performance.

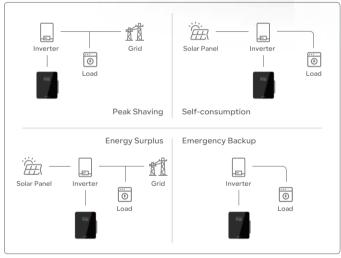
Minimalist and Compact Design: The Xcellent batteries feature a minimalist, noise-free design that can be seamlessly integrated into various residential settings, both indoor and outdoor.

High Compatibility and Flexibility: The Xcellent series is designed to be highly compatible with various inverters and can be easily scaled to meet different energy storage needs, from small residential setups to larger installations.



Product Details











Battery Energy Storage	
Battery Chemistry	LiFePO4
Cell Capacity (Ah)	100
Nominal Energy (kWh)	5.12
Output Power (kW)	4.8
Default Voltage (V)	51.2
Voltage Range (V)	43.2 ~ 59.2
Max. Operation Current (A)	95
Primary Overcurrent Protection (A)	98@10S
Secondary Overcurrent Protection (A)	120@2S
Max. Charging Voltage (V)	58.4
Discharge Cut-off (V)	43.2
Recommended Charging Voltage (V)	56.8
Dimension (W*D*H)	480*170*570mm 18.9*6.7*22.4in
Net Weight (Approximate)	54kg 119lb

Scalability	Max. 31 systems in parallel
Storage Conditions	−20°C ~ 55°C(0°C ~ 35°C Recommended) Up to 90%RH, non-condensing Initial SoC: 50%
Operating Temperature	Charge: 0°C ~ 50°C Discharge: -20°C ~ 50°C
Cooling	Natural Cooling
Max. Altitude	4000m / 13123ft
Cycle Life	8000 Cycles

General Parameters

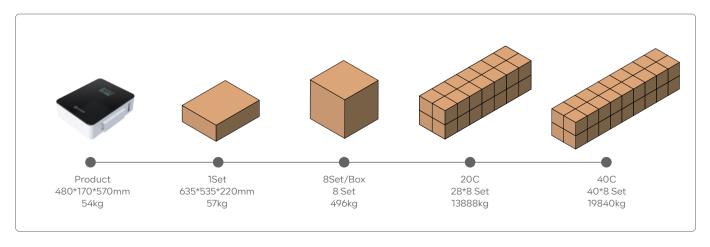
Communication

System Characteristic	
Battery Model	R-XC005161
Battery Compliances	IEC 62619, UN 38.3, UL1973 UKCA, CEI 0-21, EN-62311, EN-61000
Installation Method	Wall-Mounting
Installation Scene	Indoor
IP Rating	IP20
Warranty [1]	10 Years

[1] Please refer to the warranty letter for details

RS485, CAN, WiFi

Packaging & Shipping Details



Xcellent Plus

Wall-Mounted LV Battery System

Dependable Safety: Designed with a high level of safety features, including dependable lithium iron phosphate (LiFePO4) technology, ensuring safe and stable operation.

Sleek Aesthetics: Modern and sleek design that integrates seamlessly into residential environments, enhancing the aesthetic appeal of installation areas.

Whisper-Quiet Operation: Engineered for silent operation, making it ideal for home settings where noise levels need to be minimal.

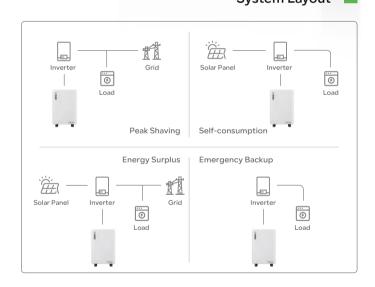
Versatile Compatibility: Compatible with various inverters and energy systems, allowing for flexible integration with existing home energy setups.

Long Cycle Life: Offers an impressive cycle life of up to 8000 cycles, providing long-term reliability and cost-effectiveness.



Product Details











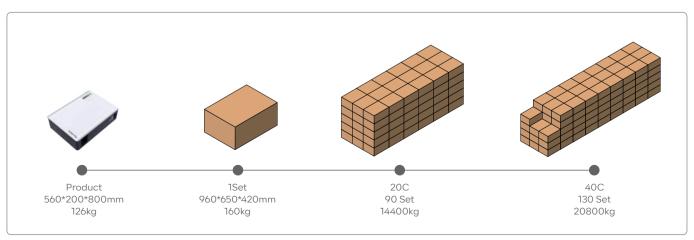
Battery Energy Storage	
Battery Chemistry	LiFePO4
Cell Capacity (Ah)	314
Nominal Energy (kWh)	16
Output Power (kW)	10.2
Default Voltage (V)	51.2
Voltage Range (V)	43.2 ~ 59.2
Max. Operation Current (A)	200
Primary Overcurrent Protection (A)	210@10S
Secondary Overcurrent Protection (A)	250@500mS
Max. Charging Voltage (V)	58.4
Discharge Cut-off (V)	43.2
Recommended Charging Voltage (V)	56.8
Dimension (W*D*H)	560*200*800mm 22*7.8*31.5in
Net Weight (Approximate)	126kg 278lb

General Parameters	
Scalability	Max. 15 systems in parallel
Storage Conditions	-20°C ~ 55°C(0°C ~ 35°C Recommended)
	Up to 90%RH, non-condensing
	Initial SoC: 50%
Operating Temperature	Charge: 0°C ~ 50°C
	Discharge: -20°C ~ 50°C
Cooling	Natural Cooling
Max. Altitude	4000m / 13123ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, RS232
System Characteristic	
Battery Model	R-XC016161

System Characteristic Battery Model R-XC016161 Battery Compliances IEC 62619, UN 38.3, CEI 0-21, EN-61000 Installation Method Wall-Mounting or Floor Mounting Installation Scene Indoor or Outdoor IP Rating IP65 Warranty [1] 10 Years

[1] Please refer to the warranty letter for details

Packaging & Shipping Details



EBrick

Rack Mounted LV Battery System

Modular Design and Easy Installation: EBrick's rack-mount design allows for customizable and simple installation, with the flexibility to connect multiple units in parallel. This reduces installation time and costs.

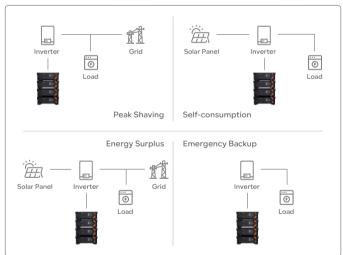
Wi-Fi Connectivity and App Control: EBrick features Wi-Fi connectivity, enabling users to remotely monitor and control the system via a dedicated app. This enhances user experience with real-time monitoring and efficient system management.

Stable LiFePO4 Battery Technology: EBrick uses reliable lithium iron phosphate (LiFePO4) batteries, offering up to 8000 cycles. Its efficient battery management system ensures high performance and safety.



Product Details









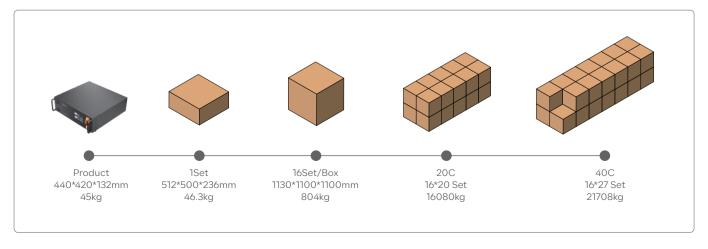


Battery Energy Storage	
Battery Chemistry	LiFePO4
Cell Capacity (Ah)	100
Nominal Energy (kWh)	5.12
Output Power (kW)	4.8
Default Voltage (V)	51.2
Voltage Range (V)	43.2 ~ 59.2
Max. Operation Current (A)	95
Primary Overcurrent Protection (A)	98@10S
Secondary Overcurrent Protection (A)	120@30mS
Max. Charging Voltage (V)	58.4
Discharge Cut-off (V)	43.2
Recommended Charging Voltage (V)	56.8
Dimension (W*D*H)	440*420*132mm 17.3*16.5*5.2in
Net Weight (Approximate)	45kg 99.2lb

General Parameters	
Scalability	Max. 31 systems in parallel
Storage Conditions	–20°C ~ 55°C(0°C ~ 35°C Recommended) Up to 90%RH, non-condensing Initial SoC: 50%
Operating Temperature	Charge: 0°C ~ 50°C Discharge: -20°C ~ 50°C
Cooling	Natural Cooling
Max. Altitude	4000m / 13123ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, WiFi
System Characteristic	
Battery Model	R-EB005161
Battery Compliances	UL1973, UL9540A, IEC 62619, UN 38.3 CEI 0-21, UKCA, EN-61000, EN-62311
Installation Method	Rack Mounting

[1] Please refer to the warranty letter for details

Packaging & Shipping Details



Installation Scene

IP Rating

Warranty [1]

Indoor

IP20

10 Years

EBrick-IND

Modular LV Battery System

Scalability: The system can be expanded with up to 31 systems in stacks, offering flexibility and future-proofing for growing energy needs.

High Efficiency: Designed for peak shaving and self-consumption, it helps reduce energy bills by optimizing the use of solar power and minimizing reliance on the grid.

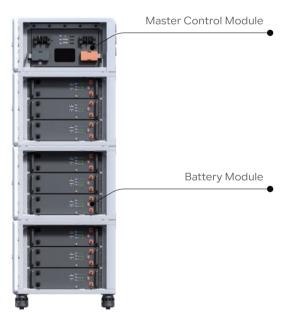
Strong Compatibility: The system is designed to work seamlessly with various inverters and energy management systems, providing flexibility in integration with existing setups.

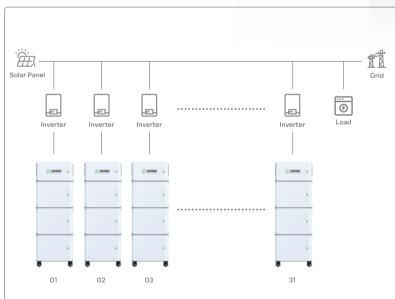




System Layout

System Demonstration











Product Model	R-EB015161-IND1	R-EB0300161-IND1	R-EB045161-IND1	R-EB060161-IND
Module Numbe	1	2	3	4
Battery Module Numbe	3	6	9	12
Battery Module Type	R-EB005161			
Master Control Type		R-MC30	0-PRO	
Nominal Energy (kWh)	15.36	30.72	46.08	61.44
Max. Charging/Discharging (A)	300	300	300	300
Nominal Capacity (Ah)	300	300	400	500
Peak for 10s (A)	330	330	350	350
Recommend Charging Voltage (V)		56.	8	
Max. Charging Voltage (V)	58.4			
Discharge Cut-off (V)	43.2(Cells)			
Nominal Voltage (V)	51.2(Cells)			
Output Power voltage (V)	54(Steady Voltage)			
General Parameters				
Weight (kg/lb)	~165/363.76	~300/661.39	~435/958	~570/1,256.63
Dimensions - W*D(mm/in)	663*635/26.1*25.0	663*635*1436	663*635*1917	663*635*2398
Dimensions - H(mm/in)	955/37.6	1436/56.53	1917/75.51	2398/94.41
IP Rating	IP20			
Cycle Life	8000 times @25°C, 0.5C, 80%DOD, 80%EOL			
Designed Calendar Life	10 years			
Safety Function	Over-charge, Over-discharge, Over-current, Low/High-temperature, Low-voltage, Short-circuit Protections			
Operation Temperature	Discharge -20°C~50°C,Charge 0°C~50°C			
Parallel Capacity	Max. 8			
Communication	RS485, Wi-Fi, CAN			

Xtreme HV 1.0

Modular HV Battery System

High Efficiency and Scalability: The high voltage system offers a nominal voltage of 204.8~614.4V, reducing transmission losses, and its modular design provides 2 to 6 module stacking solutions, ensuring high operational reliability with dynamic current equalizing techniques.

Advanced Smart Management: Wireless design with Wi-Fi connectivity, and the intelligent energy management system (EMS) allow for easy activation, unified management, and real-time monitoring and fault pre-warning.

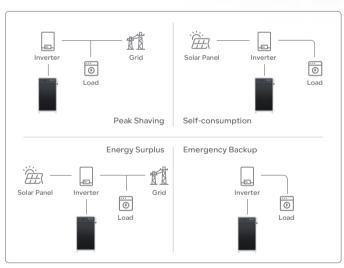
Superior Safety and Durability: With a built-in battery optimizer, up to 8000 cycle life, IP55 protection rating, and comprehensive certifications, the system ensures long-term stable operation and global safety compliance.

User-Friendly Integrated Solutions: The integration with Renon Flex Inverter eliminates the need for additional third-party inverters, and the 10-year warranty enhances user confidence and satisfaction.



Product Details











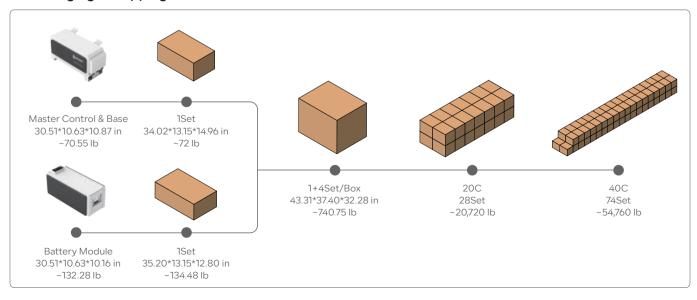
Battery Energy Storage					
Product Model	R-XH009021	R-XH014031	R-XH019041	R-XH024051	R-XH028061
Product Module QTY	2	3	4	5	6
Battery Chemistry			LiFePO4		
Battery Combination	1P60S	1P90S	1P120S	1P120S	1P150S
Cell Capacity (Ah)			50		
Nominal Energy (kWh)	9.6	14.4	19.2	24	28.8
Nominal Power (kW)	9.216	13.824	18.432	230.4	27.648
Nominal Voltage (V)	192	288	384	480	576
Max. Charging Voltage (A)	219	328.2	438	547.5	657
Recommend Discharge Cut-of	f Voltage 175.8	263.7	351.6	439.5	527.4
Dimensions - W*D (mm/in)	775*270/30.5*10.6	775*270/30.5*10.6	775*270/30.5*10.6	775*270/30.5*10.6	775*270/30.5*10.6
Dimensions - H (mm/in)	854/33.6	1112/43.8	1370/53.9	1628/64	1886/74.1
Total Weight - (kg/lb)	152/335	212/467	272/599	332/731	392/863

General Parameters	
Scalability	Max. 5 cluster in parallel
Storage Conditions	–4°F ~ 131°F(32°F ~ 95°F Recommended) Up to 90%RH, non-condensing Initial SoC: 50%
Operating Temperature	Charge: 32°F ~ 122°F Discharge: –4°F ~ 122°F
Cooling	Natural Cooling
Max. Altitude	4000m / 13123ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, WiFi

System Characteristic	
Master Control Model	R-MC050-XTH01
Battery Model	R-EM102050-XTH01
Battery Compliances	IEC62619, MSDS, UN38.3 UL 1973, UL 9540, UL 9540A(Coming soon)
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
IP Rating	IP55
Warranty [1]	10 Years

[1] Please refer to the warranty letter for details

Packaging & Shipping Details



Flex LV-EU 01

LV Single-phase Hybrid Inverter

Integrated Design: Renon Power's Flex LV-EU 01 series includes a built-in Renon Flex inverter, eliminating the need for third-party inverters. Users can monitor and control the system through the Renon Smart app, simplifying the user experience.

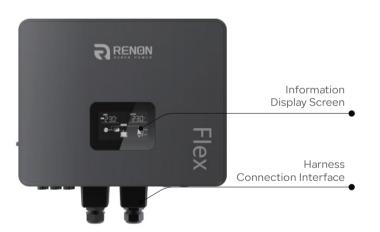
Easy Installation and Expansion: The system supports stackable modules without cables, simplifying installation. It allows easy expansion to meet future energy needs, and its compact design saves space.

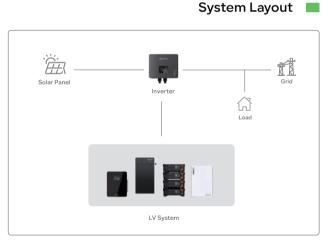
Durability and User-Friendly: With an IP65 protection rating, the Flex LV-EU 01 series is water and dust resistant. It offers mobile access for setup and maintenance, customizable charging profiles, and remote firmware upgrades, enhancing user experience and efficiency.



Product Details

Product Details











Model							
Inverter Model R	-IFL03-EU01	R-IFL03a-EU01	R-IFL04-EU01	R-IFL04a-EU01	R-IFL05-EU01	R-IFL06-EU01	R-IFL08-EU0
Interface	RS485, Wifi, 4G, CAN, DRM						
Certifications	C10/11,	VDE, EMC, EN50	549-1, IEC 62109-1	/IEC 62109-2, EN	62109-1/EN62109-	-2, CE, G99, G98	, CEI 0-21
PV Input							
Max. Input Power (kW)	4.5	5.4	6	6.9	7.5	9	12
Start-up Voltage (V)				100			
Max. PV Input Voltage(V)				550			
MPPT Range/nominal (V)				80~500/360			
Max.Input Current of Single MPPT(A)	16/16	16/16	16/16	16/16	16/16	16/16	16/32
MPPT Tracker Quantity				2			
MPPT Quantity / The Number of Input Strings Per MPPT	1/1	1/1	1/1	1/1	1/1	1/1	1/2
AC Output							
Rated Power (kW)	3	3.68	4	4.6	5	6	8
Rated Current Output to Grid (A)	13	16	17.4	20	21.7	26	35
Nominal Voltage/Range(V)				230/176~270			
Frequency (Hz)				50/60			
Power Factor			1(0	8 leading-0.8 lago	ging)		
THDi				<3%			
Grid Type				L+N+PE			
Battery Data							
Battery Voltage Range(V)				40~58			
Max. Charging Voltage(V)				58			
Max. Charge/Discharge Current(A)	60/60	72/72	80/80	92/92	100/100	120/120	160/160
Communication Interface				CAN			
EPS Output							
Rated Power (kW)	3.68	3.6	4	4.6	5	6	8
Rated Voltage(V)				230			
Rated AC Current Output to Grid (A)	13	16	17.4	20	21.7	26	35
Rated Frequency(Hz)				50/60			
Automatic Switchover Time(ms)				<10			
THDu				<2%			
Overload Capacity			100%,	60s/120%, 30s/15	50%, 10s		
General Parameters							
Scalability			Ma	x. 4 systems in pa	rallel		
Max. Efficiency				98%			
Europe Efficiency				97%			
Mppt Efficiency				99.9%			
IP Rating				IP65			
Operation Temperature	-25~60°C						
Cooling				Natural			
Relative Humidity	0~95% (non-condensing)						
Max. Altitude				4000m / 13123ft			
Dimensions(W*D*H)				454.5*200*467mr 8*7.8*18.3in	m		467*200*484mn 8.3*7.8*19in
Weight				18kg / 40lb			20kg / 44lb
Topology				Non-isolated			
Self-consumption At Night (W)				<20			

Flex LV-EU 01G

With Generator Input LV Single-phase Hybrid Inverter

Optimized Heat Distribution: Enhanced hardware upgrades optimize heat distribution, effectively minimizing overall heat generation.

Expanded Power Segments: New power options ranging from 3 to 6 kW deliver high capacity in a compact, space-saving design.

Advanced PV Input Capacity: Each PV input supports up to 16A, with the system allowing for PV power oversizing up to 1.5 times the rated model power.

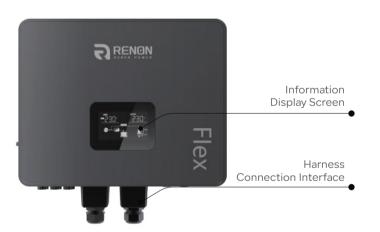
User-Friendly Display:

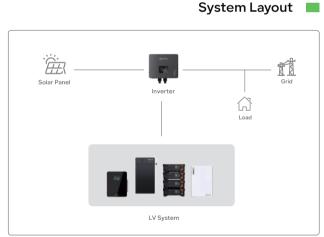
A high-resolution color screen ensures more convenient and intuitive operation.



Product Details

Product Details











Model	R-IFL03-EU01G	R-IFL03a-EU01G	R-IFL04-EU01G	R-IFL04a-EU01G	R-IFL05-EU01G	R-IFL06-EU01G
PV Input						
Max. Power (kW)	4.5	5.4	6	6.9	7.5	9
Start-up Voltage (V)				100		
Max.DC Voltage (V)				550		
MPPT Voltage Range/rated Voltage((V)		80~	500/360		
PV/(Isc) (A)				24/24		
Max. Input Current of Each Compor	nent (A)			16/16		
No. of MPPT				2		
No.of Strings per MPPT Tracker				1/1		
AC output						
Rated Output Power (kVA/kW)	3/3	3.68/3.68	4/4	4.6/4.6	5/5	6/6
Max Output Power (kVA)	3.3	3.68	4.4	4.6	5	6.6
Max. Output Current (A)	14.3	16	19.1	20	21.7	28.7
Grid Voltage/range (Vac)			230/	176 ~ 270		
Rate Grid Frequency (Hz)			Ę	50/60		
Power Factor			1(0.8leadir	ng0.8lagging)		
THDi				< 3%		
AC Grid Type			L·	+N+PE		
Battery Data						
Battery Voltage Range (V)			2	40-58		
Max. Charging Voltage (V)				58		
Max. Charge/discharge Current (A)	60/60	72/72	80/80	92/92	100/100	120/120
Communication Interface			CA	AN/485		
Emergency Power Output						
Rated Power (kVA/kW)	3/3	3.68/3.68	4/4	4.6/4.6	5/5	6/6
Rated Output Voltage (Vac)				230		
Rated Output Current (A)	13	16	17.4	20	21.7	26
Rated Output Frequency (Hz)			Ē	50/60		
Automatic Switchover Time (ms)				≤10		
THDu				<2%		
General Parameters						
Battery Chage/dischage Efficiency				96%		
Max. Efficiency				97.2%		
Europe Efficiency				97%		
MPPT Efficiency				99.9%		
Ingress Protection				IP65		
Noise Emission (dB)				<35		
Operation Temperature (°C)			-2	25~60		
Cooling			N	Vatural		
Relative Humidity			0 ~95% (No	on-condensing)		
Max. Altitude			4000	m / 13123ft		
Dimensions (W*D*H)			455*2	115*385mm		
Net Weight (kg)				20.7		
Standby loss (W)				<15		
Communication interface RS485/Wifi/GPRS/CAN/DRM			Yes/Opt,	/Opt/Yes/Yes		

Flex LV-EU 03

LV Three-phase Hybrid Inverter

Robust and Reliable Performance: The Flex LV-EU 03 is IP65 rated for waterproof and dustproof protection, ensuring stable operation indoors and outdoors. It supports 150% unbalanced load for reliable output under high load. Built-in WiFi allows remote monitoring via an app.

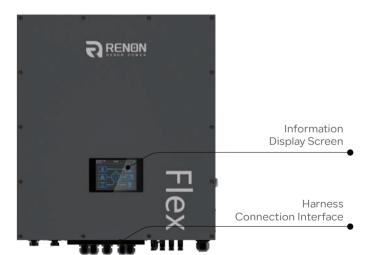
High Efficiency and Intelligent Management: With a maximum PV input current of 26A, the Flex LV-EU 03 optimizes solar resource use and system efficiency. Dual outputs enable smart load management, and user-adjustable charging current allows for performance optimization.

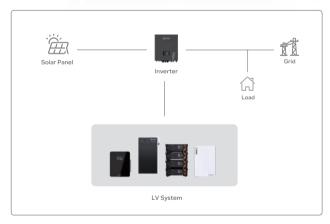
Advanced Connectivity and Expandability: The Flex LV-EU 03 features an RS485 port for seamless integration with battery management systems (BMS). It supports parallel operation of up to six units for scalable expansion. Robust construction and easy maintenance enhance reliability and reduce costs.



System Layout

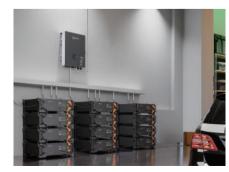
Product Details











Model		Hybrid Operation - PV Inpu	ut (DC)
Inverter Model IFL12: R-IFL12-E	EU03 IFL15: R-IFL15-EU03	Max. DC Voltage(Vdc)	1000
Max. PV Input Power(kW)	IFL12: 16 IFL15: 22.5	Start-up Voltage / Initial Fee	ding Voltage(Vdc) 320 / 350
Rated Output Power(kW)	IFL12: 12 IFL15: 15	MPP Voltage Range(Vdc)	350 ~ 950
Max. Charging Power(kW)	IFL12: 12 IFL15: 15	Number of MPP Trackers / N	Max. Input Current(A) 2 / A: 26, B: 26
Grid-tie Operation - PV Input (DC)		Number of Strings Per MPP	Tracker A: 2, B: 2
Nominal DC Voltage / Max. DC Voltage(Vd	lc) 720 / 1000	Hybrid Operation - Grid O	utput (AC)
Start-up Voltage / Initial Feeding Voltage(Vdc) 320 / 350	Nominal Output Voltage(Vac	
MPP Voltage Range(Vdc)	350 ~ 950	Output Voltage Range(Vac)	184 ~ 265 (per phase)
Number of MPP Trackers / Max. Input Cur	rent(A) 2 / A: 26, B: 26	Nominal Output Current(A)	IFL12: 17.4 / IFL15: 21.7 (per phase)
Number of Strings Per MPP Tracker	A: 2, B: 2		
		Hybrid Operation - AC Inp	ut
Grid-tie Operation - Grid Output (AC)		AC Start-up Voltage / Auto F	Restart Voltage(Vac) 120 ~ 140 / 180
Nominal Output Voltage(Vac)	230 (P-N) / 400 (P-P)	Acceptable Input Voltage Ra	ange(Vac) 170 ~ 290 (per phase)
Output Voltage Range(Vac)	184 ~ 265(per phase)	Max. AC Input Current(A)	40
Nominal Output Current(A) IFL12:	21.7 / IFL15: 17.4(per phase)		
Power Factor Range	0.9 lag ~ 0.9 lead	Hybrid Operation - Battery	
Grid-tie Operation - Efficiency		Nominal Output Voltage(Vac	
Max. Conversion Efficiency (DC/AC)	>96%	Efficiency (DC to AC)	91%
European Efficiency@ Vnominal	>95%	Hybrid Operation - Battery	y & Charger
Off-grid Operation - AC Input		Battery Voltage Range(Vdc)	40 ~ 62
AC Start-up Voltage / Auto Restart Voltage	e(Vac) 120 ~ 140 / 180	Max. Charging Current(A)	IFL12: 250 IFL15: 300
Acceptable Input Voltage Range(Vac)	170 ~ 290 (per phase)	General Parameters	
Max. AC Input Current(A)	40	Scalability	Max. 6 systems in parallel
Off-grid Operation - PV Input (DC)		Dimension(W*D*H)	660*255*750mm / 26*10*30in
Max. DC Power(kW)	IFL12: 16 IFL15: 22.5	Net Weight	IFL12: 75kg / 165lb IFL15: 78kg / 172lb
Max. DC Voltage(Vdc)	1000	Communication Port	RS-232, RS-485, USB, CAN, Wi-Fi
MPP Voltage Range(Vdc)	350 ~ 950	Intelligent Slot	Optional for SNMP and Modbus cards
Number of MPP Trackers / Max. Input Cur	rent(A) 2 / A: 26, B: 26		0 ~ 100% RH (Non-condensing)
Number of Strings Per MPP Tracker	A: 2, B: 2	Operating Temperature	-25 to 60°C (> 45°C power derating)
Off-grid Operation - Battery Mode Out	tput (AC)	Max. Altitude	4000m / 13123ft
Nominal Output Voltage(Vac)	230 (P-N) / 400 (P-P)	IP Rating	IP65
Output Waveform	Pure sine wave	Safety IE	EC 62109, IEC 62116, IEC 61727, IEC 61683
Efficiency (DC to AC)	91%	Grid Connection Standard	NRS097-2-1:2017, VDE-AR-N4105
-			

Flex HV-EU 03

HV Three-phase Hybrid Inverter

Integrated Design: The Flex HV-EU 03 series includes a built-in Renon Flex inverter, eliminating the need for third-party inverters. Users can monitor and control the system via the Renon Smart app, simplifying the user experience.

High Efficiency and Scalability: The series offers high efficiency with reduced transmission losses and supports up to 10 units in parallel, allowing easy expansion. The integrated management system provides insights and predictive maintenance.

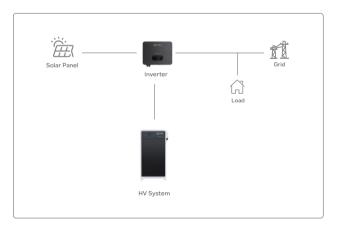
Easy Installation and Advanced Control: Designed for simple installation, the Flex HV-EU 03 series supports stackable modules. It features remote firmware upgrades, customizable charging profiles, and supports VPP and FFR functions.



Product Details



System Layout









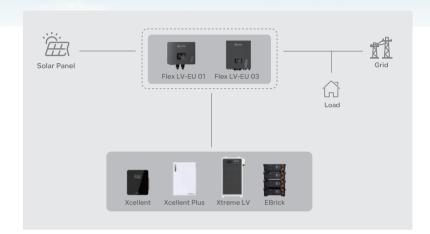
Model nverter Model	R-IFH05-EU03	R-IFH06-EU03	R-IFH08-EU03	R-IFH10-EU03	R-IFH10-A-EU03
ecommended Max.PV Power (kWp)	7.5	9	12	15	15
1ax. PV Input Voltage (V)	7.5	,	1000	15	15
MPPT Voltage Range (V)			160 ~ 950		
Rated PV Input voltage (V)			600		
Start-up Voltage (V)			160		
No. of MPP Trackers			2		
			1		
No. of Input Strings per Tracker					
Max. Input Current per MPPT (A)			36(18/18)		
Max. Short-circult Current per MPPT(A)			46(23/23)		
AC Output					
Max. Apparent Power (kVA)	5.5	6.6	8.8	10	11
Rated Power(kW)	5	6	8	10	10
Max. Current (A)	7.6	9.1	12.2	14.4	15.2
ated Current (A)	7.2	8.7	11.5	14.4	14.4
ated Voltage / Range (V)		3/ N / I	PE,220 / 380, 230 / 40	0;20%	
Grid Frequency / Range (Hz)			50 / 60;±5		
djustable Power Factor		0	.8 leading ~ 0.8 laggin	g	
Output THDi(@Rated Output)			<3%		
C Input					
Max .apparent Power (kVA)	10	12	16	20	20
Max. Current (A)	15.2	18.2	24.3	28.8	30.4
Rated Voltage / Range (V)	10.2				30.4
Grid Frequency / Range (Hz)	3 / N / PE, 220 / 380, 230 / 400; ± 20% 50 / 60; ± 5				
			30 / 00/ ± 3		
Battery Data					
Battery Voltage Range (V)			160 ~ 700		
Max. Charging / Discharging Current (A)			30 / 30		
Communication Interface			CAN		
PS Output Data (With Battery)					
Rated Power (kW)	5	6	8	10	10
Rated Voltage (V)		3/N	/ PE, 220 / 380, 230 /	400	
Rated Frequency (Hz)			50 / 60		
Rated Current (A)	7.6	9.1	12.2	14.4	15.2
Output THDi (@Rated Output)			<3%		
automatic Switch Time (ms)			<10		
Peak Apparent Power, Duration (kVA, s)	7.5, 60	9, 60	12,60	15, 60	15, 60
fficiency					
Max. Efficiency			98.00%		
Euro Efficiency					
uro Etticiency Max. Battery Charge / Discharge Efficiency	97.70%				
nax. Dattery Charge / Discharge Efficiency			97.60%		
General Parameters					
Scalability		N	ax. 5 systems in parall	el	
Dimensions(W*D*H)		520*	188 *412mm / 20.5*7.4	*16in	
Veight	27kg / 59.5lb				
Jser Interface	LED + OLED				
Communication	RS485, USB, Wifi, 4G (Optional)				
Operating Temperature Range	-25~60°C				
Relative Humidity			0~100%		
Max. Altitude	4000m / 13123ft				
tandby Self Consumption (W)			<15		
opology			Transformerless		
P Rating			IP65		
Varranty	5 years				
varraniv			J y Cui J		

Solution

LV Solution

Low Voltage Energy Storage for Everyday Needs

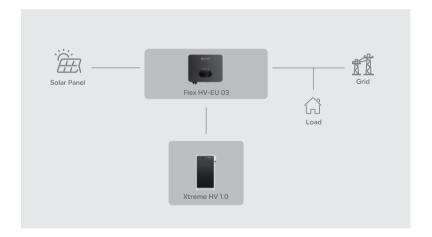
Residential LV solutions offer dependable and affordable energy storage for everyday household needs. Ideal for small to medium-sized homes, these low voltage systems provide continuous power supply, enhancing energy independence and reducing electricity costs.



HV Solution

High Voltage Energy Storage for Modern Homes

Residential HV solutions deliver robust and reliable energy storage, designed for larger homes with higher energy demands. These high voltage systems provide efficient power management, ensuring your home remains powered through peak usage times and outages.





Renon Smart

Cloud Energy Management

We're Using Smart Power to Simplify Your Life.

Renon Smart is a comprehensive device management and monitoring solution for distributors, installers, and end users.

Our software and app are ideal for managing large-scale-power station and commercial and industrial energy storage systems.



Features



Instant Clarity with Remote Data Monitoring and Analytics

Remote data monitoring, automatic curve generation, and big data analytics management make the product operation status clear at a glance.



Enhanced Security with Distributed Architecture and Data Encryption

Distributed architecture deployment and data security encryption ensure that cloud data is more secure and



Boost Customer Satisfaction with Remote Firmware Upgrades

Remote firmware upgrading and intelligent operation and maintenance report generation effectively improve customer satisfaction.

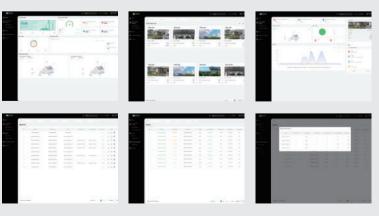


Optimized Channel Construction with a Six-Level Distribution System

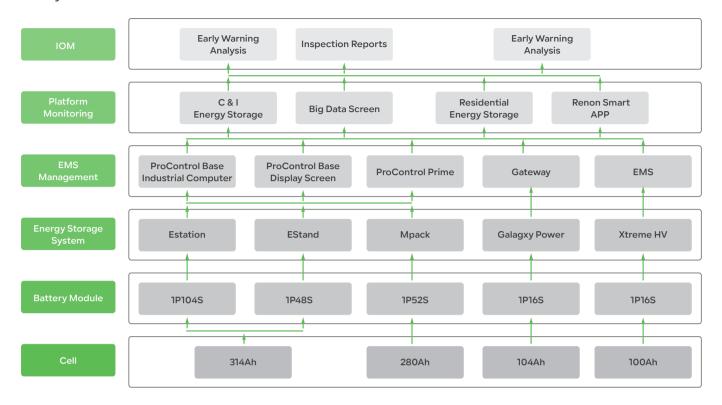
The six-level distribution system, from the brand owner to end-users, is more conducive to robust product channel

Interface Showcase

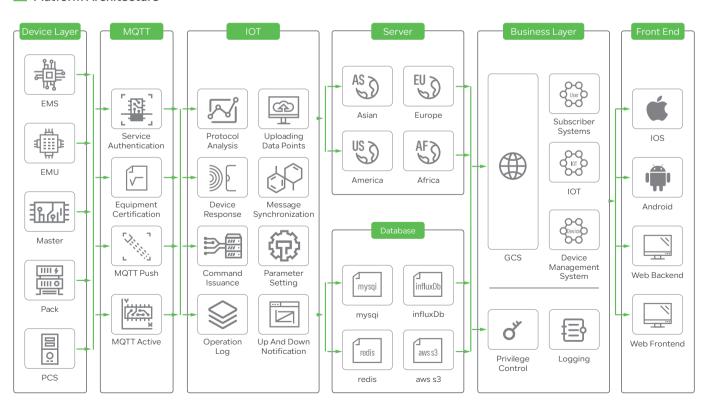




Physical Link



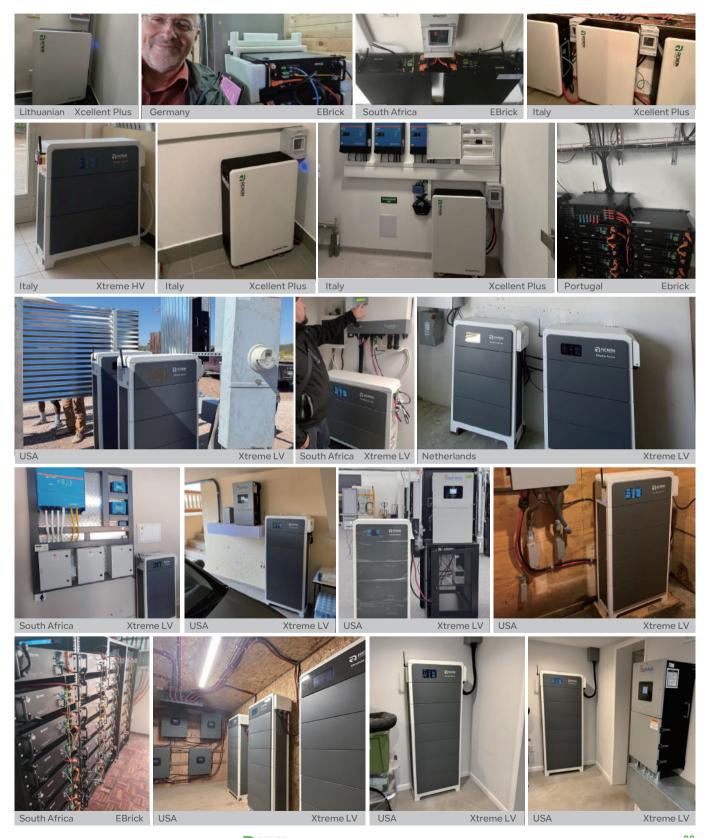
Platform Architecture



Installation Cases

"As an installer, I appreciate the reliability and efficiency of Renon Power's solutions. Their technical support team is always available to assist with any questions or challenges, ensuring a smooth installation process from start to finish."

- Samantha J., Electrical Contractor



Renon Exhibition

At Renon Power, our team is our greatest asset.

We are a diverse group of passionate professionals, united by a shared mission to make green power within reach.

RIMINI Expo Italy







Intersolar 2025 San Diego

The United States







PV EXPO 2025 Tokyo

Japan

Germany



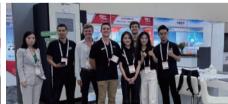




RE+ 2024 The United States







The Smarter E 2024

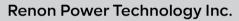






Note Book

PROVIDE	
INNOVATIVE, RELIABLE, AND	
AFFORDABLE	
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