

Xtreme LV

Stackable 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.

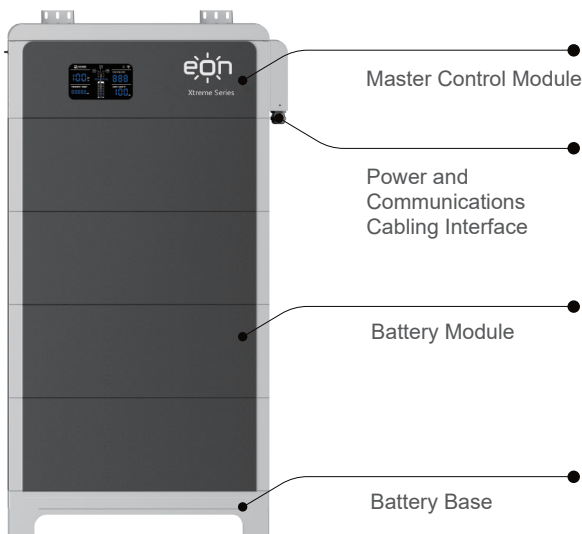
Strong Compatibility: The system is designed to work seamlessly with various inverters and energy management systems, providing flexibility in integration with existing setups.

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

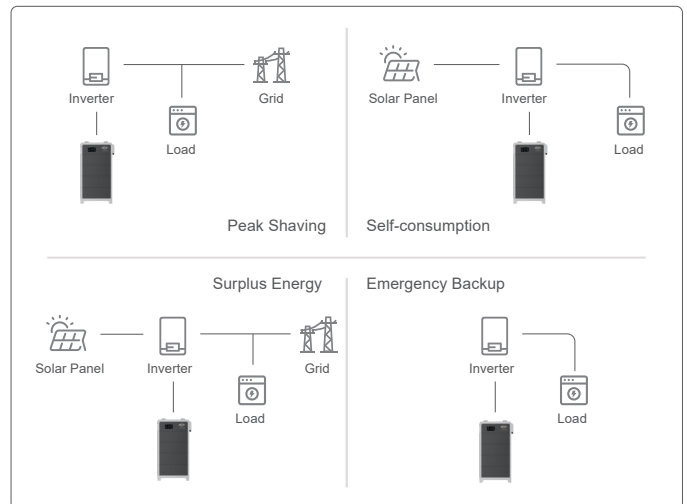
Wi-Fi Connectivity and APP Control: Enables remote monitoring and management of the energy storage system through a dedicated mobile application, enhancing user convenience and control.



Product Details



System Layout



Application Scenarios

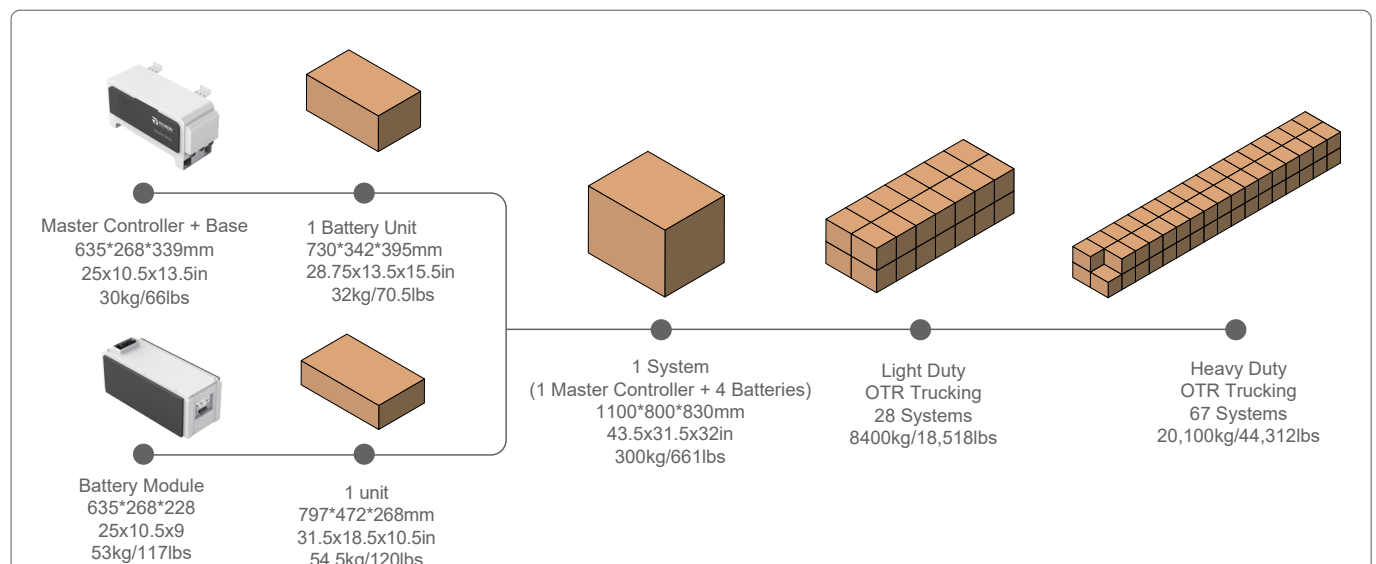


Battery Energy Storage(4.8/5.12V)	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules
Nominal Energy (kWh)	9.6/10.24	14.4/15.36	19.2/20.48	24/25.6	28.8/30.72
Max. Operation Current (A)	190	285	300	300	300
Peak for 10s (A)	196	297	392	490	500
Peak for 2s (A)	240	360	480	500	500
Max. Charging Voltage (Vdc) Discharge				54.75/58.4	
Cut-off (Vdc)				40.5/43.2	
Nominal Voltage (Vdc) Recommend				48/51.2	
Charging Voltage(Vdc) Dimension				53.25/56.8	
(W*D*H)	635*268*795mm 25x10.6x31.3in	635*268*1023mm 25x10.6x40.3in	635*268*1250mm 25x10.6x49.2in	635*268*1478mm 25x10.6x58.2in	635*268*1705mm 25x10.6x67.1in
Net Weight (Approximate)	141kg/311lbs	194kg/428lbs	247kg/545lbs	300kg/661lbs	353kg/778lbs

General Parameters		System Characteristic	
Scalability	Max. 15 systems in parallel	Battery Compliances	UL1973,UL9540, UL9540A UKCA, IEC 62619, IEC62040 CEI 0-21, UN 38.3, EN-61000, EN-62311
Storage Conditions	-20°C ~ 55°C(0°C ~ 35°C Recommended) Up to 90%RH, non-condensing Initial SoC: 50%	Installation Method	Natural Cooling
Operating Temperature	Charge: 0°C ~ 50°C Discharge: -20°C ~ 50°C	Installation Scene	Indoor or Outdoor
Cooling	Natural Cooling	IP Rating	IP65
Max. Altitude	2000m / 6561ft	Warranty [1]	10 Years
Cycle Life	8000 Cycles		
Communication	RS485, CAN, WiFi		

[1] Please refer to the warranty letter for details

■ Packaging & Shipping Details



Flex LV-US 02

LV Split-phase Hybrid Inverter

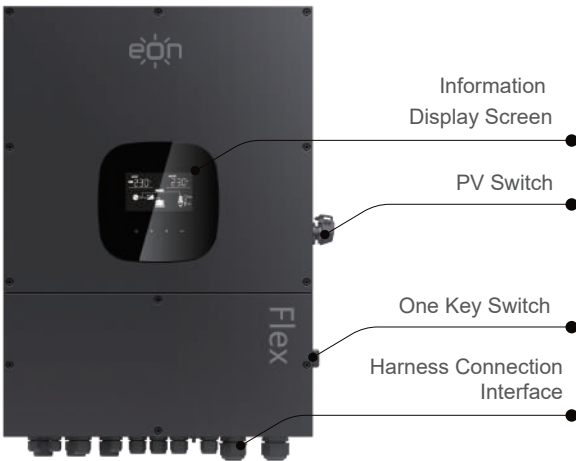
Integrated Design: e-On's Flex LV-US 02 series features an integrated design with a built-in Renon Flex inverter, eliminating the need for third-party inverters. Users can monitor and control both the inverter and battery through the Renon Smart app, simplifying the user experience.

Efficiency and Reliability: Equipped with dual high-efficiency MPPT channels (18A each), the Flex LV-US series maximizes solar energy capture. It meets US safety and performance standards with certifications including IEEE 1547.1, UL 1741SA, and UL9540.

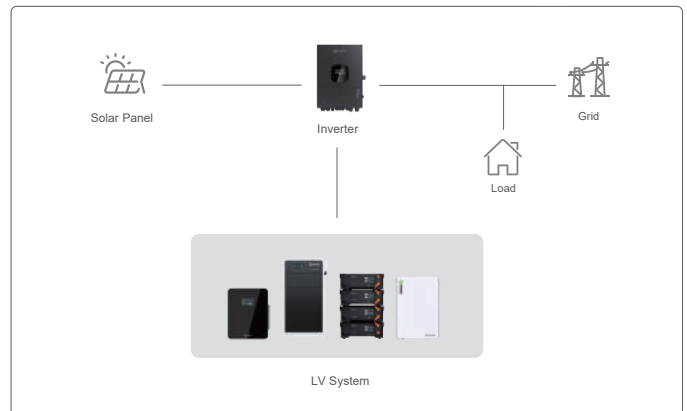
Easy Installation and Flexible Expansion: The system supports stackable modules and requires no cable connections, simplifying installation. Users can expand capacity by adding more modules, offering flexibility to meet future energy needs.



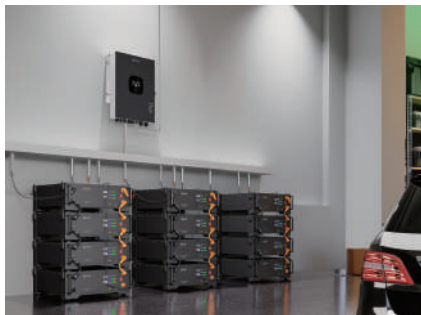
Product Details



System Layout



Application Scenario



Model Inverter	
Model	R-IFL12-US02
Phase(V)	120 / 240 Split phase, 120 / 208 Split phase
Max. PV Input Power(kW) Rated	12
Output Power(kVA/kW) Max.	10/10
Charging Power(kW)	10

Grid-tie Operation - PV Input (DC)	
Max. DC Voltage(Vdc)	600
Start-up Voltage / Initial Feeding Voltage(Vdc)	125 / 160
MPP Voltage Range(Vdc)	120 ~ 550
Number of MPPT / Max. Input Current(A)	2 / 18

Grid-tie Operation - Grid Output (AC)	
Nominal Output Voltage(Vac)	120 (P-N), 208 (P-P), 240 (P-P)
Output Voltage Range(Vac)	105.5 ~ 132(per phase)
Nominal Output Current(A)	41.5 (per phase)
Power Factor	0.9 lag to 0.9 lead

Grid-tie Operation - Efficiency	
Max. Conversion Efficiency (DC/AC)	96%

Off-grid Operation - AC Input	
AC Start-up Voltage / Auto Restart Voltage(Vac)	85 / 90(per phase)
Acceptable Input Voltage Range(Vac) Frequency	85 ~ 140(per phase)
Range(Hz)	50 / 60(Auto sensing)
Max. AC Input Current(A)	40 (per phase)

Off-grid Operation - PV Input (DC)	
Max. DC Voltage(Vdc)	600
MPP Voltage Range(Vdc)	120 ~ 550
Number of MPPT / Max. Input Current(A)	2 / 18

Off-grid Operation - Battery Mode Output (AC)	
Nominal Output Voltage(Vac)	120 (P-N), 208 (P-P), 240 (PP)
Output Waveform Efficiency	Pure sine wave
(DC to AC)	91%

Hybrid Operation - PV Input (DC)	
Max. DC Voltage(Vdc)	600
Start-up Voltage / Initial Feeding Voltage(Vdc)	125 / 160
MPP Voltage Range(Vdc)	120 ~ 550
Number of MPPT / Max. Input Current(A)	2 / 18

Hybrid Operation - Grid Output (AC)	
Nominal Output Voltage(Vac) Output	120 (P-N), 208 (P-P), 240 (P-P)
Voltage Range(Vac)	105.5 ~ 132 (per phase)
Nominal Output Current(A)	41.5 per phase

Hybrid Operation - AC Input	
AC Start-up Voltage / Auto Restart Voltage(Vac)	85 / 90(per phase)
Acceptable Input Voltage Range(Vac)	85 ~ 140(per phase)
Max. AC Input Current(A)	40(per phase)

Hybrid Operation - Battery Mode Output (AC)	
Nominal Output Voltage(Vac)	120 (P-N), 208 (P-P), 240 (P-P)
Efficiency (DC to AC)	91%

Hybrid Operation - Battery & Charger	
Nominal DC Voltage(Vdc)	40 ~ 62
Max. Solar Charging Current(A)	200
Max. AC Charging Current(A)	200
Max. Charging Current(A)	200

General Parameters	
Dimensions (W*D*H)	515*215.5*715mm / 20.2*8.5*28in
Weight	45kg / 99lb
Scalability	Max. 6 systems in parallel
Communication Port IP	RS232, RS485, WI-FI, USB
Rating	IP65
Operating Temperature	-25 ~ 60°C (>45°C derating)
Certifications	UL1741SB, UL9540, FCC, CEC