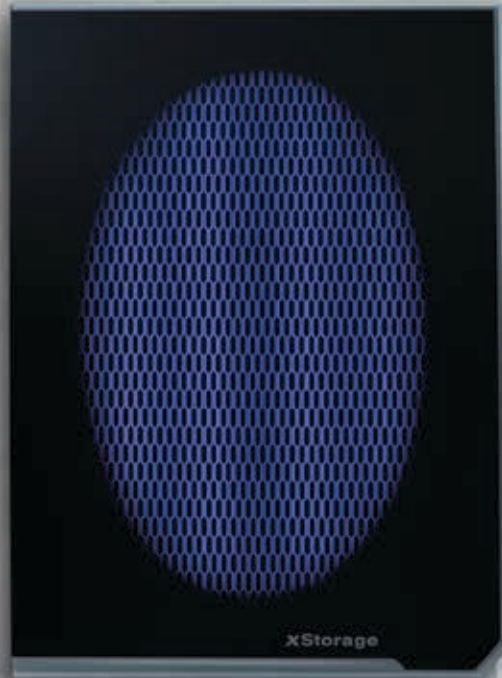


xStorage Home
Eaton Nissan Home energy storage



Powering Business Worldwide



Homeowners need to take control of their energy supply to address multiple challenges:

- Increasing power bills
- Variable electricity rates
- Power outages
- Potential natural disasters
- Intermittent solar pv production
- Decreasing incentives for solar pv production



xStorage Home helps store energy and control how and when to use it in homes.



Benefits for homeowners



Lower electricity bills

Connected to residential power supply and/or renewable energy sources such as solar panels, the unit helps save money on electricity bills by charging up when renewable energy is available or energy is cheaper (e.g. during the night) and releasing that stored energy when demand and costs are high.



Lower CO2 footprint

By storing, consuming or selling renewable energy back to the grid, homeowners are contributing to the decarbonisation of the energy supply, maximizing consumption of onsite generation, primarily solar energy.



Ease of installation and use

This integrated unit ensures safety and performance when storing and distributing clean power. Once set-up by a certified installer, it is ready to work, giving homeowners the ability to plug in and power up easily. It also has smartphone connectivity to enhance usability and allow them to switch between energy sources at the touch of a button.



Safe technology

The technology is industrialized, tested and configured to deliver high levels of quality, reliability and performance. As a power management company with over 100 years experience and leader in Uninterruptible Power Supply (UPS), Eaton brings a depth of experience that is unmatched by most storage players. Nissan is the leader in Electric Vehicles and is a proven, high volume, maker of reliable Li-Ion batteries that meet the high safety standards of the automotive market.



Customer service

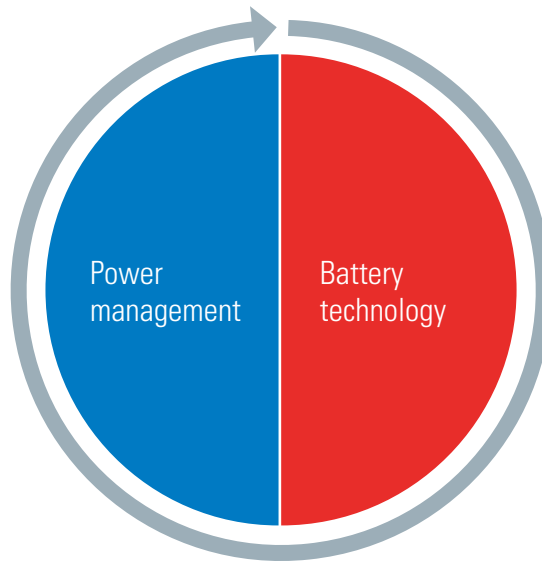
The system is supported by a network of over 1,000 distributors, working with qualified installers in 77 countries.

xStorage Home has been developed by two leaders in areas critical to Energy Storage

EATON

Powering Business Worldwide

Leader in both electrical energy for buildings and in power electronics with **a depth of experience** unmatched by most storage players



Leader in Electric Vehicles and a proven, high volume, maker of reliable Li-Ion batteries **for 15 years**

Making energy storage simple for you

Minimized risk



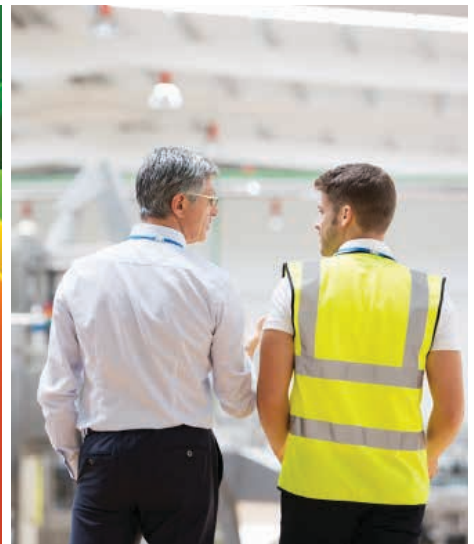
- Two global brands with strong financials
- A strong heritage of success
- Technology leadership

Customized solution



- Customizable power rating and energy storage capacity

Global support

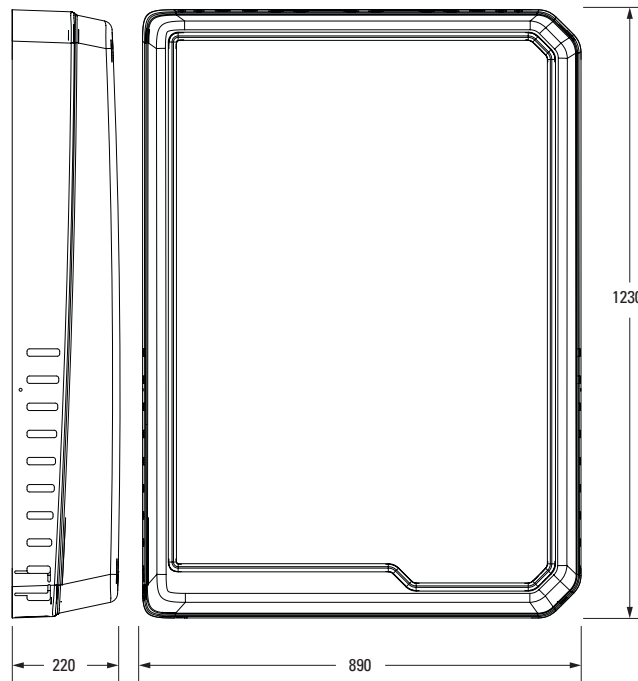


- Over 24,000 employees in more than 40 countries in EMEA
- A network of over 1,000 distributors working with qualified installers in 77 countries

Technical specifications

xStorage Home single phase system combinations overview							
Battery Capacity (nominal)		AC Inverter Power (nominal)		Max. Recommended PV input power	Full system weight (appr.)	Full system dimensions (appr.)	
4.2 kWh		3.6 kW	4.6 kW	6 kW	4.8 kW	135 kg	
6 kWh							1230 x 890 x 220 mm (H x W x D)
7.5 kWh							
Battery pack	BATTERY TYPE						
	SECOND LIFE			NEW			
Nominal	4.2 kWh			6 kWh		7.5 kWh	
Cell chemistry	LMO (Lithium Manganese Oxide)				NMC (lithium nickel manganese cobalt oxide)		
Operating temperature range				0 – 30°C			
Max charge/discharge current DC		42 A		54 A		70 A	
DC battery input voltage				74.4 - 98.4 V			
Overcharge protection				Fuse + Contactor			
DoD				90%			
Standards				IEC 62619; UN 34.81; UN 38.3; CE			
Warranty – battery life time		5 years (1 full cycle per day i.e., charge and discharge)		10 years (1 full cycle per day i.e., charge and discharge)		10 years (1 full cycle per day i.e., charge and discharge)	
Physical properties							
Dimensions				442 x 781 x 175 mm (HxWxD)			
Weight				83 kg			
Hybrid inverter	INVERTER POWER RANGE						
	3.6 kW			4.6 kW		6 kW	
PV INPUT (DC)							
Max. DC power				4.8 kW			
Maximum DC Voltage				500 V			
Nominal DC operating voltage				100 - 500 V			
MPPT max. voltage range				240 - 500 V			
Max. Input current				20 A			
Initial feeding voltage				150 V			
Number of MPP Trackers				1			
DC insulation resistance				VDE0126 & VDE0126-1-1/A1: Riso > 1.5 MΩ, Others: Riso > 200 kΩ			
LOAD/GRID OUTPUT (AC)							
Nominal Output Power		3600 W		4600 W		6000 W	
Max Critical Load				70% of nominal output power			
Nominal AC Grid Voltage				230 V (Grid-Tie), 230 V ± 3% (Off-Grid)			
Nominal frequency				AC Synchronized operation 50 Hz / 60 Hz ± 1 Hz			
Nominal AC output current		15.7 A		20 A		26.1 A	
Max. AC current		17.4 A		22.3 A		29 A	
AC wiring system				Single phase/N/PE, TN, TT, IT (additional fuse or CB required)			
Total Harmonic Distortion (THD)				<3%			
Power Factor				0.99 (Grid-Tie), ±0.9 (Off-Grid)			
Metering capability				Power meter for critical load and PV production (not meter-grade)			
EFFICIENCY							
MPPT efficiency				>99%			
Maximum efficiency (battery to AC)				>90%			
PV to grid max. efficiency				97%			
Standby Losses				<10 W			
INTERFACE							
Communication				LAN, RS-485, USB Host (with USB WIFI dongle)			
				USB: Type B receptacle for firmware upgrade			
Comms Protocols				CAN BUS: Only for battery pack - inverter internal comms			
				HTTP REST API			
LED indicators				Green (ON): Normal status			
				Red (ON): Fault status. Inverter is unable to connect to the grid			
Display				Green (Blinking): Communication activity			
				LCM display: Character 16 words, 2 lines, 3 Function keys			
STANDARDS							
EMC/EMI standard				EN 61000-6-2: 2005/EN 61000-6-3: 2007+A1: 2011			
CE				LVD: 2014/35/EU; EMC: 2014/30/EU; 2011/65/EU RoHS			
Physical properties							
Dimensions				515 x 796 x 182 mm (HxWxD)			
Weight				37 kg			
General system specs	XSTORAGE						
	Applicable for all system combinations						
SAFETY							
Degree of protection				IP20 (Indoor)			
Hazard substance restriction				Lead free, compliance with RoHS GP2			
Standards				IEC 62109-1:2010; IEC 62109-2:2011; IEC 62619:2017			
OPERATING CONDITIONS							
Storage temperature range				from -10 – 40°C			
Operating temperature				0 – 30°C			
Humidity				5% to 95% Relative Humidity (Non condensing)			
Acoustic noise				35 dB (indoor application)			
Altitude				Elevation: max 3000 meters			
Cooling				Natural airflow			
OTHERS							
Solar DC Switch				Integrated			
Topology				Transformerless			
Grid integration				AC coupled			
Grid certificates		UK (G83/2, G59/3-2); FR (UTE C15-712-1, SEI REF 04, V6 or CRAE, Mainland/Island); IT (CEI 0-21: pending)					
Common use cases				Grid tie: self-consumption; Off-grid: backup			
OV category				OVCI and OVCI in common mode			
Degree of pollution		2					

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Smart and
Clean Power.
Made Simple.



ENERGY STORAGE

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