





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

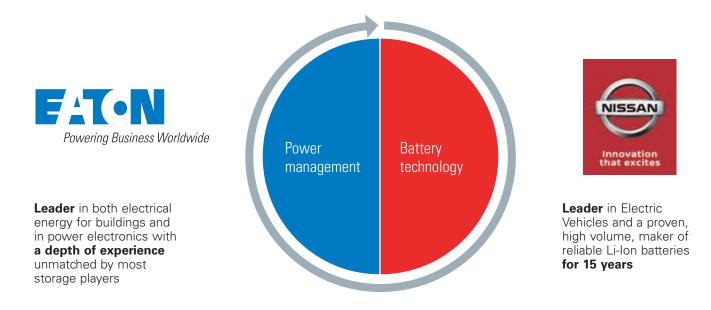
The technology is industrialized, tested and configured to deliver high levels of quality, reliability and performance. As a power management company with over 100 years experience and leader in Uninterruptible Power Supply (UPS), Eaton brings a depth of experience that is unmatched by most storage players.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



# Making energy storage simple for you

## Minimized risk



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



### **Global support**

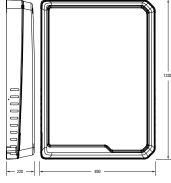


 Customizable power rating and energy storage capacity



- 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

# System combinations overview



xStorage Home single phase								
AC Invert	er Power (1	nominal)	Max. Recommended PV input power	Weight (appr.)	Dimensions (appr.)			
3.6 kW	4.6 kW	6 kW	4.8 kW	135 kg	1230 x 890 x 220 mm (H x W x D)			
7								
	AC Invert	AC Inverter Power (1	AC Inverter Power (nominal)	AC Inverter Power (nominal) Max. Recommended PV input power	AC Inverter Power (nominal) Max. Recommended PV input power Weight (appr.)			

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# Technical specifications

		BATTERY TYPE						
Battery pack	SECOND LIFE NEW							
Nominal	4.2 kWh	6 kWh	7.5 kWh					
Cell chemistry	LMO (Lithium Mangar	1	NMC (lithium nickel manganese o	obalt oxide)				
Operating temperature range	0 – 35°C	0 – 30°C	0 – 35°C					
Max charge/discharge current DC	42 A	54 A	70 A					
DC battery input voltage		74.4 - 98.4 V						
Overcharge protection	74.4 - 98.4 V Fuse + Contactor							
Standards	I EG 62619; UN 34.81; UN 38.3; CE							
Standards	INVERTER POWER RANGE							
Hybrid inverter	3.6 kW		kW 6 kW					
PV INPUT (DC)								
Max. Recommended 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	200							
Initial feeding voltage	150 V							
Number of MPP Trackers	100 V 1							
DC insulation resistance	VDE0126 & VDE0126-1-1/A1: Riso > 1.5 MΩ, Others: Riso > 200 kΩ							
	VDE0126 8		. 11130 2 200 K12					
LOAD/GRID OUTPUT (AC)								
Nominal Output Power	3600 W							
Nominal AC Grid Voltage	230 V (Grid-Tie), 230 V ± 3% (Off-Grid)							
Nominal frequency		AC Synchronized operation 50 Hz / 60 Hz						
Nominal AC output current	15.7 A	20 A						
Max. AC current	17.4 A	22.3	1					
AC wiring system	Single phase/N	/PE, TN-C, TN-S, TN-C-S, 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 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								
	1	AN, RS-485, USB Host (with USB WIFI d	ongle)					
Communication	USB: Type B receptacle for firmware upgrade							
	CAN BUS: Only for bettery pack - inverter internal comms							
Comms Protocols	HTTP REST API							
	Green (ON): Normal status							
LED indicators	Red (ON): Fault status. Inverter is unable to connect to the grid							
	Green (Blinking): Communication activity							
Display	LCM	LCM display: Character 16 words, 2 lines, 3 Function keys						
STANDARDS	ECIVI	display. Character 10 Words, 2 lines, 5 Tu	iction keys					
EMC/EMI standard	EN 61000.6.2: 2005/EN 61000.6.2: 2007 / A1: 2011							
	EN 61000-6-2: 2005/EN 61000-6-3: 2007+A1: 2011							
CE		LVD: 2014/35/EU EMC: 2014/30/EU						
General system specs	General system specs							
		Applicable for all system combination						
SAFETY		1000 // . D						
Degree of protection	IP20 (InDoor)							
Hazard substance restriction	Lead free, compliance with RoHS GP2							
Standards	EN 62109-1 (2010), EN62109-2:2011 (IEC 62109-1; IEC 62109-2)							
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 2000 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							
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Smart and clean power. Made simple.



ENERGY STORAGE

eaton.eu/energystorage



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