

# EQUINOX2 S/SX

On-grid single-phase solar inverters from 2 to 10 kW

## EQUINOX2 S/SX: Technology and design for a greener world

The new solar power inverters in Salicru's **EQUINOX2 S/SX** series are an excellent option for generating photovoltaic power in homes and commercial premises, allowing users to capture clean, cheap energy from the roof of their building.

Their stand out for their compact size, ease of installation and optimal heat dissipation. Internally, the device is equipped with the highest quality components and state-of-the-art technology (SiC). The **EQUINOX2** range offers exceptional advantages such as high efficiency and compatibility with any type of roof and panel configuration.

The S range includes 2, 3, 4, 5, 6, 8 and 10 kW devices, making them suitable for a wide range of projects. In addition, their wide input voltage range enables different numbers and types of photovoltaic modules to be connected, allowing for a flexible string design. **EQUINOX2 S/SX** devices can be monitored easily and intuitively via various communication interfaces (WiFi and LAN), the web portal and the free EQUINOX app for smartphones and tablets.

The high protection afforded by their epoxy-coated die-cast aluminium housing makes them suitable for indoor and outdoor use, and installation is fast and easy due to their compact, lightweight design, ease of grip and well-spaced connections in the lower part of the unit to facilitate operability.



## Applications: Self-consumption in homes and businesses

Salicru's **Equinox2 S/SX** series has been specially designed for private energy production in homes and businesses. Installations of this type allow you to produce your own electrical power, reducing electricity bills and dependence on the conventional power grid by using the sun's energy, the cleanest and most ecological source of energy.



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## Performances

- Made from aluminium and coated with epoxy paint to guarantee optimum corrosion resistance.
- Compact and lightweight design to facilitate installation by a single operator.
- Excellent thermal design extends the life of the device.
- Integrated DC disconnecter.
- Components of the highest quality and cutting-edge SiC technology; OLED display with advanced features.
- 7 power ratings. Can be fitted to any kind of home or premises.
- 2 MPPT Trackers with a wide voltage range, adaptable to most roofs.<sup>(1)</sup>
- High conversion efficiency and input current adapted to high-performance panels.
- Low start-up voltage of 60 Vdc.<sup>(2)</sup>
- Function to limit surpluses to the integrated network.
- Admits 30% of input power in DC, above the nominal voltage.
- Possibility of delivering 10% more power in addition to the nominal.
- Installation supervision via the web and the free EQUINOX app.<sup>(3)</sup>
- 10-year warranty, extendable to 20 years.

(1) Except models EQX-2001-S and EQX-3001-S, which have 1 MPPT tracker.

(2) 60V for 1 MPPT models, 80V for SX models and 120V for 2 MPPT S models.

(3) 24-hour data (generation, network and consumption): **485/WIFI 24H EQX** communication module and **ESM1 EQX** energy meter.



## High efficiency

The new **Equinox2 S/SX** series is one of the most efficient on the market, which, when added to the wide voltage range, provides exceptional system performance levels.

## Silent operation

The operating noise level of the **Equinox2 S/SX** inverters is minimum (less than 25 dB), since they do not use cooling fans, and this guarantees the users' well-being and comfort.

## Monitoring from app and website

Both the free **EQUINOX** app and the web portal, consulting historical data and monitoring in real time the photovoltaic power produced, that consumed by loads, and that consumed by the mains or injected into it. The App also provides data on the cost savings achieved and the total reduction in CO<sub>2</sub>. **EQUINOX** allows you to activate the zero reinjection mode in your installation.

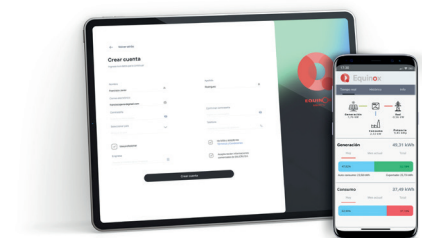
## Power meter

The **ESM1 EQX** is a network analyser that enables bidirectional metering of the energy flow of energy without requiring the installation of external transformers.



## Communication modules

The **485/...EQX2** communication modules transmit the inverter data to the cloud, for subsequent use by the **EQUINOX** App and the web portal. Two types of assembly are available: on the inverter itself (optionally, only PV panel power, generation, consumption and discharge) or on a DIN rail on an AC panel, complete 24-hour data.



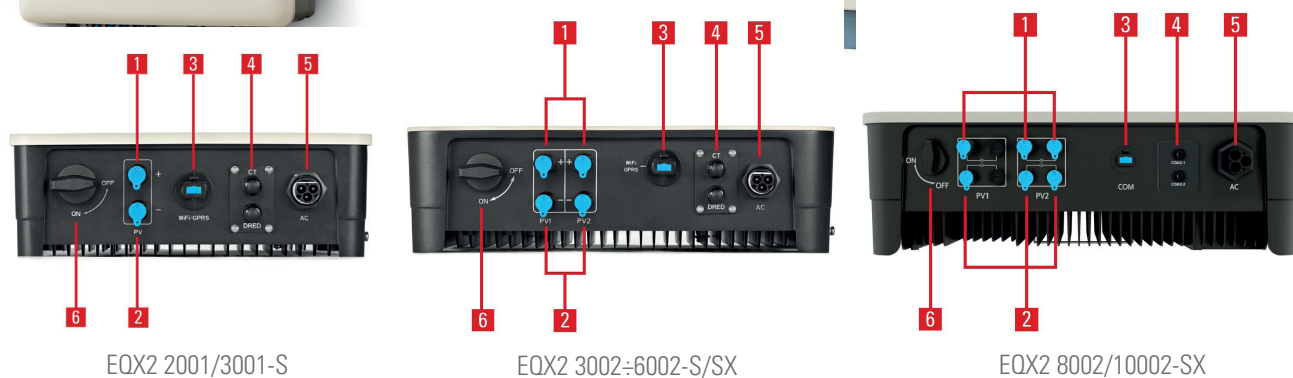
## Range

MODEL	CODE	MAXIMUM DC INPUT POWER (kW)	RATED POWER (kW)	MAXIMUM APPARENT OUTPUT POWER (kVA)	OUTPUT CURRENT (A)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
EQX2 2001-S	6B2AB000001	2.6	2	2.2	8.7	114 × 327 × 297	6.5
EQX2 3001-S	6B2AB000002	3.9	3	3.3	13	114 × 327 × 297	6.5
EQX2 3002-S	6B2AB000003	3.9	3	3.3	13	120 × 410 × 360	13
EQX2 3002-SX	6B2AB000007	3.9	3	3.3	13	120 × 410 × 360	13
EQX2 4002-S	6B2AB000004	5.46	4.2	4.62	18.3	120 × 410 × 360	13
EQX2 4002-SX	6B2AB000008	5.46	4.2	4.62	18.3	120 × 410 × 360	13
EQX2 5002-SX	6B2AB000009	6.5	5	5.5	21.7	120 × 410 × 360	13
EQX2 6002-SX	6B2AB000010	7.8	6	6.6	26.1	120 × 410 × 360	13
EQX2 8002-SX	6B2AB000020	10.4	8	8.8	34.8	175 × 550 × 410	24
EQX2 10002-SX	6B2AB000021	13	10	11	43.5	175 × 550 × 410	26

## Dimensions



## Connections



1. Positive photovoltaic input terminals
2. Negative photovoltaic input terminals
3. Main communication port (communication module connection).
4. Auxiliary communication port (optional).
5. AC / mains output terminal.
6. DC disconnect.

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## Technical specifications

MODEL		EQX2 2001/3001-S	EQX2 3002/4002-S	EQX2 3002÷6002-SX	EQX2 8002/10002-SX
INPUT DC	Starting voltage (V)	60	120	80	
	Max. short-circuit current - I <sub>sc</sub> PV (A)	15	15/15	20/20	20/40
	Inputs per MPPT	1	1/1		1/2
	Inputs per MPPT	1	2		
	MPPT voltage range (VDC)	80 ÷ 450	100 ÷ 550		80 ÷ 550
	Input maximum current per tracker (A)	12.5	12,5/12,5	15/15	15/30 <sup>(1)</sup>
	MPPT performance	99,9%			
OUTPUT	Power factor	0.8 inductive...0.8 capacitive			
	Network voltage	230 V Single-phase (L, N, PE) <sup>(2)</sup>			
	Voltage ranges	195,5 ÷ 253 V according to UNE 217002			
	Max. total harmonic distortion (THD)	<3%			
	Frequency	50 Hz (45,5 ÷ 55 Hz) / 60 Hz (55 ÷ 65 Hz)			
	Performance EU	97,0%	97,5%		97,6%
	Maximum performance	97,5%	98,1%		
COMMUNICATION	Ports	RS485, WiFi/LAN (optional)			
INDICATIONS	Type	2 LED states, OLED display			
PROTECTION	Input DC disconnector	Included			
	Integrated in the device	Inverse polarity DC, Residual Current, DC disconnector, Over-voltage, Over-temperature, Differential, Islanding operation, AC short-circuit, Over-voltage AC			
	Over-voltage protection category	PV: II / AC: II			
GENERAL	Contamination level	PD2/PD3			
	Self-consumption (at night)	<1 W			
	Operating temperature	-30°C ~ +60°C (de-rate for temperature >45°C)			
	Relative humidity	0 ~ 100%			
	Maxium operating altitude	3,000 masl (power degradation up to 4,000 m)			
	Degree of protection	IP65			
	Cooling	Natural convection (no fans) <sup>(3)</sup>			
	Acoustic noise at 1 metre	≤25 dB <sup>(3)</sup>			
	Terminal type	MC4			
	Installation	Indoor and outdoor installation / Wall support			
	Topology	Transformerless Non-isolated (On grid)			
STANDARDS	Safety / EMC	IEC 62109-1/2 / EN 61000-6-2/3 <sup>(4)</sup>			
	Energy efficiency	IEC EN UNE 61683			
	Environmental tests	IEC EN UNE 60068-2-1/2/14/30			
	Operation / Protection	UNE EN 62116:2014, IEC 61727:2004, UNE 217002:2020, UNE 217001:2020			
	Corporate cerification	ISO 9001, ISO 14001, ISO 45001			

(1) For PV inverters with more than 1 string per MPPT, please enquire about potential current restrictions

(2) For 2 x 230 V two-phase voltages, ask

(3) For EQX2 10002-SX smart fan cooling and ≤40 dB

(4) Consult available regulations for other countries

Information subject to change without notice.

