

EQUINOX S

Single-phase solar power inverters for mains connection from 2 to 6 kW

EQUINOX S: Technology and design for a greener world

The solar power inverters in Salicru's **Equinox S** series are an excellent option for the generation of photovoltaic power in homes and commercial and industrial premises, allowing clean, cheap energy to be obtained from the roof of the building itself.

They are outstanding both for their elegant design and because they are reliable, efficient and functional devices that guarantee a completely stable energy production, features inherited from the original Equinox series.

The range includes devices with powers of 2, 3, 4, 5 and 6 kW, making them suitable for a wide range of projects. Their wide input voltage range allows for flexible string design, since a variable number of photovoltaic modules of different types can be used. The photovoltaic installations can be monitored easily and intuitively via diverse communication interfaces (WIFI, LAN, 4G or GPRS) using the free **EQX-sun** App for smartphone and tablet.

The high protection rating of the housing makes them suitable for indoor and outdoor use, and installation is fast and easy, due to their compact design and weight and the location of the connections in the lower part of the unit.



Applications: Self-consumption in homes and businesses

Salicru's Equinox S 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

- Elegant design with aluminium housing and anodized finish.
- Ergonomic forms and easy wall mounting.
- Compact size, minimizes the space required.
- Reduced weight allows installation by one person.
- IP65 protection rating allows outdoor use.
- Plug & Play connection.
- Cooling does not require fans.
- Inductance located in the radiator, to reduce the internal temperature.
- Five power ratings. Adaptable to any kind of home or premises.
- 2 MPPT Trackers allow for roofs of most dimensions.⁽¹⁾
- Wide MPPT tracker voltage range for more flexible string design.
- Integrated DC disconnecter.
- High conversion efficiency.
- Low start-up voltage of 120 Vdc.
- Integrated power export limiting function.⁽²⁾
- Supervision of the installation via free **EQX-sun**⁽³⁾
- LCD for start-up, configuration and viewing of production data.
- 5-Year warranty, extendable to 20 years.



(1) Except model EQX 2000-1S, which has 1 MPPT tracker.

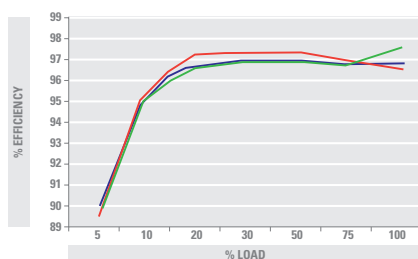
(2) Requires optional **ESM1 EQX** power meter. Does not allow for the use of self-consumption without surplus as contemplated in Spanish Royal Decree 244/2019.

(3) Optional equipment may need to be installed, depending on the monitoring data required:

- Only generation data: **485/WIFI EQX** communication module.

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

High efficiency



Silent operation

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

APP for smartphone and tablet

The free app **EQX-sun** allows monitoring the current status of the photovoltaic installation, 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 CO₂.

Power meter

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



Communication modules

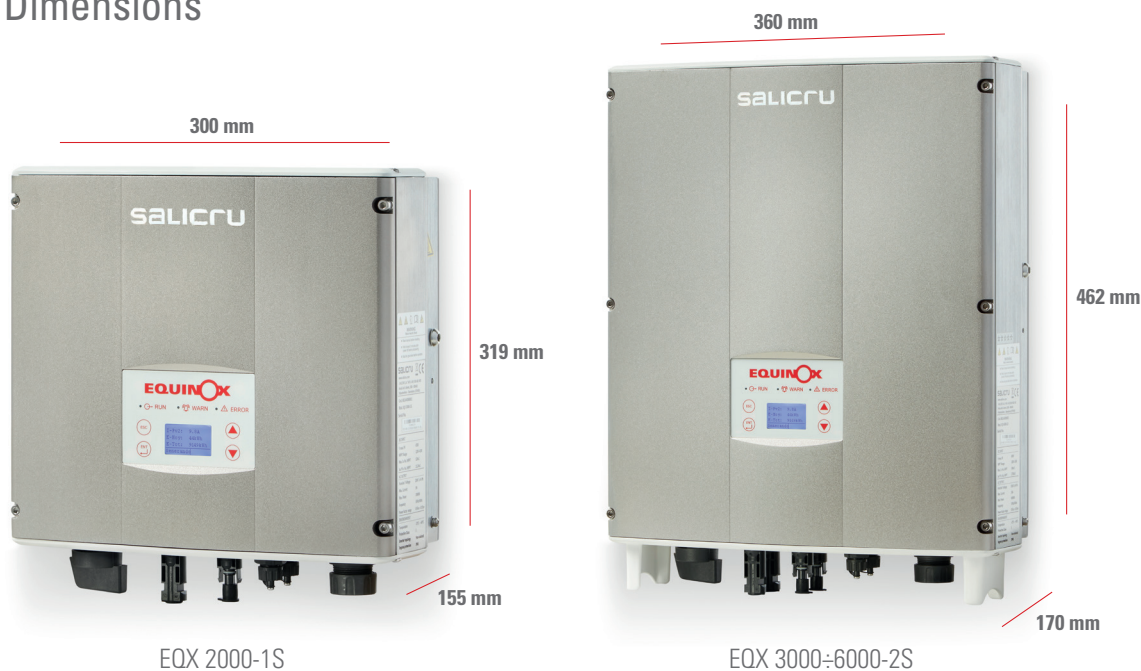
The **485/...EQX** communication modules transmit the inverter data to the cloud, for subsequent use by the **EQX-sun** App. Two types of assembly are available: on the inverter itself (generation data only) or on a DIN rail on an AC board (24-hour data plus generation, network and consumption).



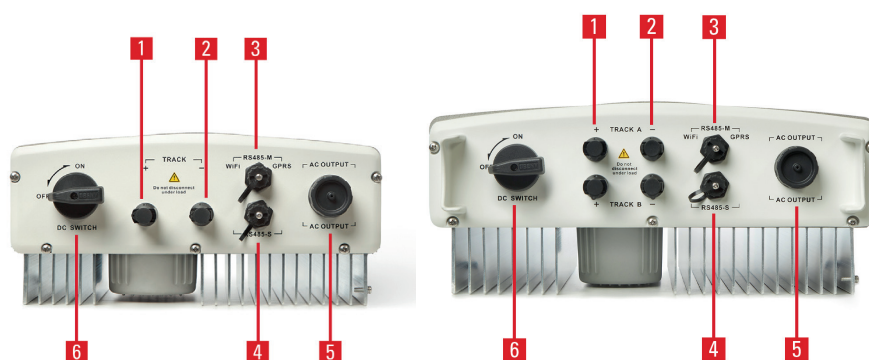
Range

MODEL	CODE	POWER (kW)	Nº MPPTs	DIMENSIONS (D x W x H mm)	WEIGHT (Kg)
EQX 2000-1S	6B2AA000001	2	1	155 x 300 x 319	9.5
EQX 3000-2S	6B2AA000002	3	2	170 x 360 x 462	18
EQX 4000-2S	6B2AA000003	4	2	170 x 360 x 462	18
EQX 5000-2S	6B2AA000004	5	2	170 x 360 x 462	18
EQX 6000-2S	6B2AA000005	6	2	170 x 360 x 462	18

Dimensions



Connections



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

Technical specifications

MODEL		EQX 2000-1S	EQX 3000-2S	EQX 4000-2S	EQX 5000-2S	EQX 6000-2S
INPUT	Maximum DC input power (W)	2200	3300	4500	5500	6600
	Maximum DC input voltage (Vdc)	450	600			
	Working-out rank (Vdc)	120-410	120-550			
	MPPT rank (Vdc)	180-360	180-480	200-480	240-480	
	Inputs per MPPT	1/1	2/1			
	Max. input current per MPPT x Number of MPPTs	12A × 1	9A × 2	12A × 2	15A × 2	16A × 2
	Max. short-circuit current per MPPT	13,2A × 1	9,9A × 2	13,2A × 2	16,5A × 2	17,6A × 2
OUTPUT	Power factor	0.95 inductive to 0.95 capacitive				
	Maximum power (W)	2000	3000	4000	5000	6000
	Network voltage	Single phase (L, N, PE)				
	Voltage ranges	Single phase 180~270 Vac				
	Maximum apparent output power (VA)	2000	3000	4000	5000	6000
	Total harmonic distortion (THDi)	<2%				
	Frequency	50 Hz (47-51,5 Hz) / 60 Hz (57-61,5 Hz)				
	Rated output current (A)	9	14	20	24	26
	Performance EU	97,01%	96,49%	96,59%	96,66%	97,32%
	Maximum performance	97,51%	97,27%	97,29%	97,56%	98,13%
	MPPT performance	99,90%				
COMMUNICATION	Ports	Standard: RS485 / Optional: Wifi, LAN, 4G and GPRS				
INDICATIONS	Type	2" back-lit LCD + status LEDs				
PROTECTION	Input DC disconnecter	Included				
	Integrated in the device	Input: Over-voltage, under-voltage and over-current, DC insulation resistance monitoring, inverse polarity, residual current detection / Output: anti-islanding, over-voltage, under-voltage, over-current and short-circuit, overtemperature, frequency out of range, high DC component in AC.				
	Over-voltage protection category	PV: II / AC: II				
GENERAL	Contamination level	3				
	Self-consumption (at night)	<1W				
	Operating temperature	-25°C~+60°C (de-rate for temperature >45°C)				
	Relative humidity	0~100%				
	Maxium operating altitude	2000m (de-rate for altitude >2000m)				
	Degree of protection	IP65				
	Isolation	Class I				
	Cooling	Natural convection (no fans)				
	Acoustic noise at 1 metre	≤25 dB				
	Terminal type	MC4 or compatible				
	Installation	Indoor and outdoor installation / Wall support				
	Topology	Transformerless				
	STANDARDS	Certificate	RD 244/2019; UNE 206007-1 IN ⁽¹⁾			
Safety / EMC		IEC 62109-1/2 / EN 61000-6-2/3				
Energy efficiency		IEC 61683				
Environmental tests		IEC 60068-2-1/2/14/30				
Operation / Protection		IEC 62116				
Quality and environmental management		ISO 9001 & ISO 14001				

(1) Consult available regulations for other countries



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