

# EQUINOX2 HT+

Three-phase hybrid solar inverters from 15 to 50 kW

## EQUINOX2 HT+: Maximize power with three-phase renewable energy

The **EQUINOX2 HT+** series of three-phase hybrid solar inverters improves the features and increases the power of the three-phase HT range, for application in installations with 3 x 380 V / 3 x 400 V.

As such, we can continue to speak of maximum versatility. By increasing the power of the hybrid inverter range, the **EQUINOX2 HT+** can be adapted to suit a wider range of scenarios and possibilities in more industrial settings. The power rating of the **EQUINOX2 HT+** goes up to 50 kW, while the inverters stand out for their high level of efficiency (98.8%). They boast batteries with a charge and discharge capacity of up to 100 A, an input current capacity of up to 30 A per string, and can work with unbalanced loads and phases, reaching levels of up to 110%. Like the EQUINOX2 HT range, they have a full backup function built into the device itself.

The mode for operation without batteries ensures that photovoltaic energy is still available even when the batteries are in poor condition, disconnected for replacement or even if the user decides to acquire them at a future date and initially operates the system without storage. Although this function is usually temporary, it helps to enhance the already comprehensive availability of the installation. It should also be noted that, for installations with very unbalanced phases, Salicru's hybrid range is an excellent solution for ensuring correct use of solar power.

The backup function for critical loads is also worth highlighting. Thanks to technological advances, the **EQUINOX2 HT+** boasts a transfer speed of just 20 ms, thereby ensuring the continued operation of connected devices in the event of an unexpected power outage and without requiring any manual intervention.



## Applications: Self-consumption up to 50 kW

The **EQUINOX2 HT+** range offers a high degree of independence from the electricity grid, with a three-phase installation. It is the ideal solution for commercial facilities with low- and medium-powered machinery, such as garages, production centres, retail food outlets, the hospitality industry, etc. The devices also allow production processes to be scaled upwards without the need to increase the contracted power, thereby offering users direct savings on their monthly energy bills.



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## Performances

- Input current adapted for high-performance panels.
- 4 MPPT trackers with dual 30 A input.
- Very low start-up voltage of 200 VDC and battery charging capacity with low solar radiation.
- Admits DC input power 50% above the nominal level.
- Battery transfer time of less than 20 ms.
- Option of delivering 10% more power in addition to the nominal.
- Fast charging/discharging of up to 100 A. Fast battery charging (1 hour).
- Backup of up to 110% of nominal power, in battery mode.
- Wide battery voltage range: 135-750 V.
- Capacity to work with 110% unbalanced loads.
- 120% maximum output overload for 60 s in backup mode.
- Built-in DC disconnecter.
- Plug & Play connection, with start-up and supervision of the installation via the free EQUINOX app, online platform or OLED screen.
- Meter and instrument transformers included.
- IP 65 rating for indoor and outdoor installations.
- Maximum energy efficiency (up to 98.8%).



## Fast charging and discharging

The **EQUINOX2 HT+** enables a one-off delivery of current of up to 100 A, in the event that, in UPS or peak shaving mode (and on an exceptional basis), it is necessary to supply a load that exceeds the nominal power. The backup output can deliver up to 20% more power than the inverter's nominal power, for a period of 60 s.

Additionally, users can force fast battery charging to ensure full availability of power after just one hour. Thanks to these features, the **EQUINOX2** hybrid series take energy availability to the maximum level.

## Maximum energy production

All of the models in the **EQUINOX2** series stand out for their low start-up voltage, which translates to maximum exploitation of solar radiation and a substantial increase in the number of production hours compared to our competitors' products.

This increase is even more important in winter, when the number of hours of good solar radiation is significantly lower.



## Smart energy management

Thanks to the different operating modes (general, economy, peak shaving, UPS and isolated), the system can be adapted to suit different scenarios and applications, allowing users to discriminate between priority and secondary loads and to manage the charging and discharging of the battery.

The **EQUINOX2 HT+** hybrid solar inverters enable users to discriminate between two types of load: priority loads (those connected to the backup output) and secondary loads (those connected to the mains output). Thus, in the event of an interruption to the mains power supply, the energy stored in the batteries and solar panels will only be delivered to the priority loads, while the secondary loads will be ignored, thereby optimising the use of previously stored and/or generated energy.

## Range

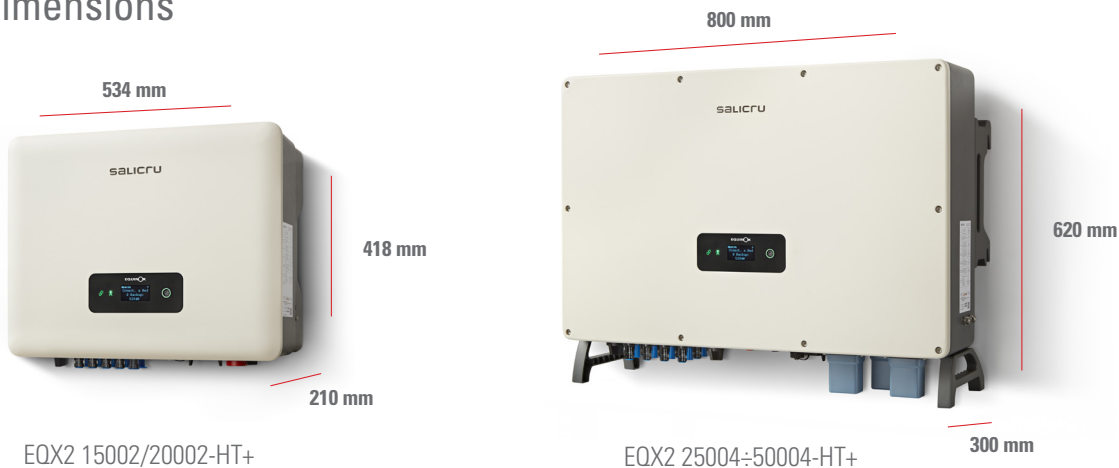
MODEL	CODE	MAXIMUM DC INPUT POWER (kW)	RATED POWER (kW)	MAXIMUM APPARENT OUTPUT POWER (kVA)	OUTPUT CURRENT (A)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
EQX2 15002-HT+	6B2AE000012	23	15	16.5	21,7	210 × 534 × 418	31
EQX2 20002-HT+	6B2AE000013	30	20	22	29	210 × 534 × 418	31
EQX2 25004-HT+	6B2AE000014	38	25	27.5	38	300 × 800 × 620	72
EQX2 30004-HT+	6B2AE000015	45	30	33	43,5	300 × 800 × 620	72
EQX2 40004-HT+	6B2AE000016	60	40	44	60	300 × 800 × 620	72
EQX2 50004-HT+	6B2AE000017	75	50	55	75	300 × 800 × 620	72

## Battery selection

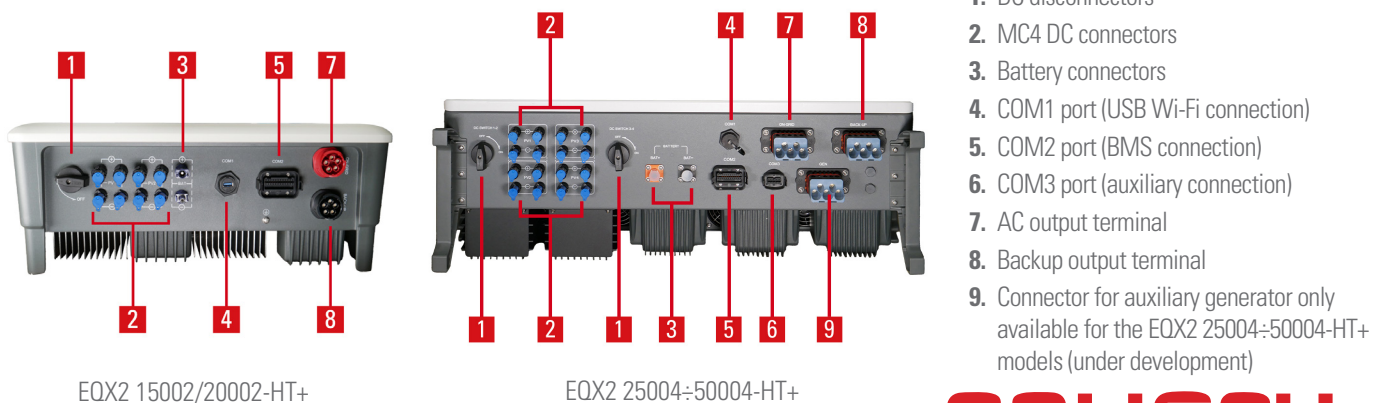
MODEL	CODE	RATED CAPACITY (kWh)	RATED VOLTAGE (V)	DIMENSIONS (D × W × H mm)	WEIGHT (kg)	COMPATABILITY
SUNWODA Industrial 25 kWh	6B2EA000000	25	256	410 x 480 x 104	248	HSX, HT, HT+
SUNWODA Industrial 30 kWh	6B2EA000001	30	307.2	410 x 480 x 121	294	HSX, HT, HT+
SUNWODA Industrial 35 kWh	6B2EA000002	35	358.4	410 x 1180 x 700	340	HSX, HT, HT+
SUNWODA Industrial 40 kWh	6B2EA000003	40	409.6	410 x 1180 x 870	386	HSX, HT, HT+
SUNWODA Industrial 45 kWh	6B2EA000004	45	460.8	410 x 1180 x 870	432	HSX, HT, HT+
SUNWODA Industrial 50 kWh	6B2EA000005	50	512	410 x 1180 x 1040	478	HSX, HT, HT+
SUNWODA Industrial 55 kWh	6B2EA000006	55	563.2	410 x 1180 x 1040	524	HSX, HT, HT+
SUNWODA Industrial 60 kWh	6B2EA000007	60	614.4	410 x 1180 x 1210	570	HSX, HT, HT+
SUNWODA Industrial cabinet 60 kWh	6B2AC000005	60	614.4	750 x 1200 x 2160	880	HSX, HT, HT+

You can configure up to 6 towers/cabinets in parallel, reaching a maximum of 360 kWh.  
For isolated installations, we recommend installing at least twice the rated power of the inverter.  
To learn about additional capacity options, please refer to the data sheets of the corresponding batteries.

## Dimensions



## Connections



# Technical specifications

MODEL		EQX2 15002/20002-HT+	EQX2 25004÷50004-HT+
INPUT DC	Rated voltage	620	
	Starting voltage (V)	236	
	Max. short-circuit current - I <sub>sc</sub> PV (A)	40/40	
	Inputs per MPPT	2	
	Inputs per MPPT	2	4
	MPPT voltage range with battery	236 ÷ 850	
	MPPT voltage range (VDC)	200 ÷ 950	200 ÷ 850
	Input maximum current per tracker (A)	30	
OUTPUT	Power factor	0.8 inductive...0.8 capacitive	
	Network voltage	3x400 V Three-phase (3L, N, PE)	
	Voltage ranges	195.5 ÷ 253 V (F-N); adjustable depending on the country	
	Max. total harmonic distortion (THD)	<3 %	
	Frequency	50 Hz / 60 Hz; margins adjustable depending on the country	
	Performance EU	97,5%	98,3%
	DCI	<0,5 % I <sub>n</sub>	
	Maximum performance	98,4%	98,8%
OUTPUT Back-up	Transfer time (ms)	<20	
BATTERY	Battery type	Lithium with BMS	
	Voltage range	135 ÷ 750 V	
	Maximum charge/discharge current	40 A	100 A
COMMUNICATION	Ports	CAN, RS485, WiFi/LAN (optional)	
INDICATIONS	Type	OLED & LED	
PROTECTION	Input DC disconnecter	Bipolar. Load break	
	Integrated in the device	DC reverse polarity, battery input connection reversal, insulation resistance, DC overvoltage, temperature, residual current, island operation, AC overvoltage, overload, AC short circuit, GFCI	
	Over-voltage protection category	PV: II / AC: III	
GENERAL	Contamination level	PD2/PD3	
	Self-consumption (at night)	<15 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	Smart fan	
	Acoustic noise at 1 metre	<40 dB	<50 dB
	Terminal type	MC4	
	Installation	Indoor and outdoor installation / Wall support	
STANDARDS	Topology	Transformerless hybrid	
	Safety / EMC	IEC 62109-1/2 / EN 61000-6-2/3	
	Energy efficiency	IEC EN UNE 61683	
	Environmental tests	IEC EN UNE 60068-1/2/14/30	
	Operation / Protection	UNE EN 62116:2014, IEC 61727:2004, UNE 217002:2020, UNE 217001:2020 <sup>(2)</sup>	
Corporate cerification	ISO 9001, ISO 14001, ISO 45001		

(1) With minimum power of 250 W

(2) Consult the regulations available for other countries

Information subject to change without notice.

