

# Equinox 750kW & 1MW CE

EQX0750EV320XN/P  
EQX1000EV400XN/P

PV Inverters

**Peak Efficiency of 98.7%**  
**Next Generation Modular Design**  
**Wide Thermal Operating Range**

## Streamline Design

With all components encased in a single enclosure. Equinox PV inverters are easy to install, operate and maintain.

## Advanced Utility-Ready Features

- Remote control of real and reactive power
- Low-voltage ride through
- Power factor control
- Simplified grid interconnection
- Fast communication
- Easily integrated into SCADA systems through standardized communication interfaces

## Rugged Design

- Wide thermal operating range:  
-22°F to +140°F (-30°C to +60°C)
- Support for external temperatures as low as -40°F with optional Winter climate package
- Designed for optimal performance in Desert, Topical and Winter climates

## Industrial-Grade Engineering

- Fully outdoor rated solution (no concrete station required)
- IP54 enclosure for maximum protection and longevity
- Double wall enclosure eliminates external air circulation from inside inverter
- Solar shields attached to exterior of enclosure dissipate solar radiation, reduce heat buildup



## Profitable PV Power

The Satcon® Equinox™ inverter has a significant impact on the profitability dynamic of large-scale solar power systems. With its system intelligence, next-generation MPPT technology, and industrial-grade engineering, the Equinox inverter maximizes system uptime and power production, even in the harshest environments.

## Rugged Design

Equinox features a IP54 enclosure, ensuring protection and longevity. It features a wide thermal operating range from -22° F to +140° F. With the optional Winter climate package, it supports temperatures as low as -40° F with an optional heater.

## Industrial-Grade Engineering

As a fully outdoor rated solution, Equinox does not require an external climate controlled enclosure or concrete station, reducing both cost and space requirements. Equinox's double wall enclosure cooling system eliminates the need for external air circulation inside the inverter, reducing contaminants and improving cooling performance.

## Increased PV Plant Yield

Equinox, Satcon's next-generation inverter design, features best-in-class peak efficiency of 98.7% to provide you with the highest levels of system performance and uptime.

## Advanced Utility-Ready Features

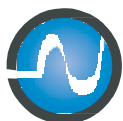
Equinox's advanced utility-ready features enable remote control of real and reactive power, low-voltage ride through and power factor control. Equinox provides for simplified grid interconnection and supports fast communications, allowing it to be easily integrated into SCADA systems through standardized communication interfaces.

## Commercial and Utility-Scale

Many of the world's largest solar power installations depend on Satcon Equinox PV inverters to provide efficient and stable power—even in the harshest climates.

## Proven Performance

The proven leader in solar inverter solutions for commercial installations, Satcon sets the standards for efficient large-scale power conversion



**Satcon**  
Utility-Ready Solar Inverters

# Equinox 750kW & 1MW CE

## Streamlined Design

With all components encased in a single enclosure, Equinox is easy to install, operate and maintain.

## Outdoor Construction

- Rugged cabinet for all environments
- Dual cooling fans

## Easy Maintenance

- Modular components make service efficient
- Convenient access to all components
- Customizable large in-floor cable gland plates make installation of DC and AC cables easy

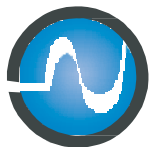
## Proven Reliability

Rugged and reliable, Equinox PV inverters are engineered from the ground up to meet the demands of large-scale installations.

## Safety

- Built-in DC disconnect & AC breaker

Specifications	750kW	1 MW
<b>Input Parameters</b>		
Input Voltage Range	500- 850 VDC	615-850 VDC
Maximum Array Input Voltage	1000 VDC	1000 VDC
Maximum Operating Input Current <sup>1</sup>	1701 ADC	1844 ADC
PV Array Configuration	Negative/ Positive / Floating	Negative/ Positive / Floating
<b>DC Input Combiner</b>		
Combiner Bus Bar Input	15	15
Number of Inputs and Fuses	15 x 200A	15 x 200A
<b>Transformer</b>		
Integrated Transformer	No	No
<b>Efficiency</b>		
Maximum <sup>2</sup>	98.7%	98.7%
European Efficiency	98.1%	98.2%
<b>Output Parameters</b>		
Nominal Power	750 kW	1 MW
Nominal Output Voltage	320 VAC	400 VAC
Output Voltage Range, [-20%/15%]	256-368 VAC	320-460 VAC
Maximum Continuous Output Current / Phase	1353A	1443 A
Standby Consumption (tare losses including control power and aux. )	150 W	150 W
Nominal Output Frequency, 3-Phase	50 Hz	50 Hz
Maximum Harmonic Distortion	< 3% THD	< 3% THD
Power Factor, Full Load	> 99%	> 99%
Dynamic Power Factor Control	+/- 0.8	+/- 0.8
Power Curtailment	0-100%, 1% step	0-100%, 1% step
<b>Environment</b>		
Operating Temp Range	-30°C ~ +60°C	-30°C ~ +60°C
Storage Temperature Range	-30°C ~ +70°C	-30°C ~ +70°C
Cooling	Forced Air	Forced Air
Noise Level (Distance of 3m)	< 65 dB(A)	< 65 dB(A)
Relative Humidity (Non-Condensing)	Up to 95%	Up to 95%
Elevation (Maximum) <sup>3</sup>	4000 m	4000 m



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Utility-Ready Solar Inverters

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Specifications	750kW	1 MW
<b>Enclosure</b>		
Dimensions (H x W x D)	2103mm x 4585mm x 945mm	2103mm x 4585mm x 945mm
Weight <sup>4</sup>	3090 kg	3090 kg
Finish	RAL 7035	RAL 7035
Hood and Base Trim Finish	RAL 5001	RAL 5001
Protection Rating	NEMA 3R / IP54 (Outdoor Rating)	NEMA 3R / IP54 (Outdoor Rating)
<b>Warranty and Services</b>		
Five Year Warranty	Standard	Standard
Extended Warranty (1 and 5 year warranty)	Optional	Optional
Preventive Maintenance Agreement	Optional	Optional
<b>Communication Interface</b>		
Modbus RS485	Standard	Standard
Modbus TCP/IP	Optional	Optional
<b>Monitoring</b>		
PV Zone	Optional	Optional
Third Party Compatibility	Standard	Standard
<b>Regulations and Standards Conformity</b>		
CE Mark, Low Voltage Directive 2014/35/EU, Electromagnetic Compatibility Directive: 2014/30/EU, IEC/EN62109-1/-2, IEC/EN61000-6-2/-6-4.	Standard	Standard
Advanced Grid Support (incl. LVRT/BDEW) Option	Optional	Optional

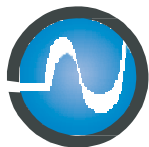
1. Calculated at nominal power and minimum DC voltage
2. Calculated without auxiliary power
3. Operation above 3,281ft.(1,000m) results in a decrease in the maximum ambient temperature for full power operation. For each additional 3,281ft (1,000m) in elevation, there is approximately a +4.5°F (+2.5°C) decrease in the maximum ambient temperature for full power operation.
4. Dependent on the options selected.

Note: All specifications are subject to change.

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