

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



Equinox series inverter

Best in Class Peak Efficiency of 98.7%

Profitable PV Power

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

Commercial and Utility Scale

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 PV inverter solutions for commercial installations, Satcon sets the standards for efficient large-scale power conversion.

Increased PV Plant Yield in the Widest Range of Environments

Equinox, Satcon's next generation inverter design, features best in class efficiency (98.7%) to provide you with the highest levels of system performance and uptime and the utility scale solar industry's widest thermal operating range.

Specifications



Satcon®

Specifications

Central Inverters

Equinox Series



Parameters	250KW	500KW	630KW	750KW	850KW	1MW
DC Input Voltage Range (V)	500-850	500-850	585-850	500-850	560-850	615-850
Maximum Array Input Voltage (V)	1000	1000	1000	1000	1000	1000
PV Array Configuration	Neg/Pos	Neg/Pos	Neg/Pos	Neg/Pos	Neg/Pos	Neg/Pos
Integrated Transformer	Yes	No	No	No	No	No
Nominal AC Output Frequency (Hz)	60	50/60	50/60	50/60	50	50/60
Nominal AC Output Voltage (V)	480	315*/320	315*/360	320	360	400
Power Factor, Full Load	>99%	>99%	>99%	>99%	>99%	>99%
Dynamic Power Factor Control	+/-0.8	+/-0.8	+/-0.8	+/-0.8	+/-0.8	+/-0.8
Maximum Harmonic Distortion (%)	3	3	3	3	3	3
Efficiency (%)	97(CEC)	98.5(CEC)	98.5(CEC)	98.5(CEC)	98.0(Euro)	98.5(CEC)
Tare Losses (W)	100	100	100	150	150	150
Cooling	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air
Noise Level (3 meters) (dB(A))	<65	<65	<65	<65	<65	<65
Operating Temperature Range (°C)	-30 - +60	-30 - +60	-30 - +60	-30 - +60	-30 - +60	-30 - +60
Storage Temperature Range (°C)	-30 - +70	-30 - +70	-30 - +70	-30 - +70	-30 - +70	-30 - +70
Protection Rating	NEMA 3R	NEMA 3R / IP54	NEMA 3R / IP54	NEMA 3R / IP54	NEMA 3R / IP54	NEMA 3R / IP54
Weight (kg)	2510	1870	1870	3090	3090	3090
Standard Warranty	5 Year	5 Year	5 Year	5 Year	5 Year	5 Year
Extended Warranty	Optional	Optional	Optional	Optional	Optional	Optional
Standards	UL	UL/CE/CQC/PEA	UL/CE/CQC/PEA	UL/CE/CQC/PEA	CE/PEA	UL/CE/CQC/PEA

All the specifications are subject to change * AC Voltage for CQC model