RENEWABLE ENERGY



EEI SOLAR INVERTER STATE OF THE ART IN TECHNOLOGY

Sun is an infinite, clean and free source of energy. EEI is aware of the growing importance of photovoltaic energy in the worldwide energy scenario. From is strong experience in electronic power conversion system, EEI manufactures and installs photovoltaic converters where high reliability and low maintenance levels are mandatory.

8YF500QNAFxx series inverter are specifically designed for large ground based PV power plant: EEI took special care in the design and manufacturing of this photovoltaic inverter, to make it particularly suitable for harsh environmental that is typical of large photovoltaic ground-based installations.

Main inverter parameters

- Output power 500kW at 320V
- Frontal accessibility through doors fitted with lock and key
- Modular internal design for easy maintenance
- Power circuit with IGBT, film capacitors and low inductance connections.
- 6 input fuses and surge suppressor on DC side
- · High reliability, system designed for harsh environmental conditions
- Microcontroller and DSP software for the digital management of all control parameters, alarms, diagnostics and I/O
- Embedded datalogger: a touch-screen display provides functioning data through TCP / MODBUS protocol
- . Compliant to major international grid codes for Output Energy Quality
- 5 years warranty









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	8YF500QNAFXX
AC OUTPUT PARAMETERS	
Rated AC power	500 kW
Rated voltage (± 10 %)	320 V
Rated frequency (± 1 %)	50 Hz
Nominal current	950 A
Power factor	0,95 leading to 0,95 lagging
Grid type	3P TI
THD(I)	< 3 %
DC INPUT PARAMETERS	
DC input	6
Number of MPPT	1
Maximum input power	500 kW
MPPT input voltage range	450÷850 V
DC voltage: rated/maximum	450 / 1000 V
DC current: rated	1100 A (6 x 185 A)
Surge suppressors	Included
DC fuses	Included
EFFICIENCY	
Maximum	97,9%
European efficiency	97,4%
WEIGHT AND DIMENSIONS	
L/H/D	1810 / 2310 / 800 mm
Weight	1900 kg
AUXILIARY GRID	
Ventilation aux	400 V - 1,7 A - 3F
UPS aux grid	230 V - 0,65 A - 1F
AUXILIARY UPS CONSUMPTION	
Stand-by	130 W
In operation	230 W
ENVIRONMENTAL CONDITION	
Operative temperature range	-5°C / +50°C
Storage temperature range	-10°C / +50°C

^{*}Without aux power supply - Vin 550 Vdc

Available as an option
- Version for module with grounded pole
- Continerized solution with LV panel, transformer and MV switchgear



