

EEI SOLAR INVERTER 8YF SERIES FOR REVAMPING

INVERTER

Inverter enclosure made of 20/10mm steel panels. Front opening through lockable doors to ease access to all parts. Side and rear access through bolted panels.

Inverter drive specifications:

- IGBT power circuit, film capacitors and low inductance connections
- Digital management of control parameters, alarm diagnostics, analogue and digital I/O signals from dedicated microcontroller and DSP software
- 400V three-phase AC output

Main components included inside the enclosure:

Three-phase output circuit breaker, ultra rapid fuses, contactors for grid side insertion, iron core three-phase filter reactors.

FLEXIBILITY

Available as an option

- Grounded pole module version
- Containerized solution with LV panel, transformer and MV switchgear
- Flexible AC voltage to meet existing transformer voltage rating
- Custom project development to meet job specific needs

INTERFACE AND COMMUNICATION

The 8YF series converters is equipped with a data-logger unit and a touch-screen display that provides storage of past log files and alarm list. Communication protocol is TCP/MODBUS.

Additional parts provided:

- Manually operated switches
- Signal lights for voltage presence
- Emergency push-button





MODEL	8YF330
DC INPUT PARAMETERS	
Maximum total input power @ 50°C	330 kW
Maximum total input power @ 25°C	400 kW
Number of independent MPPT	3
MPPT voltage range	450 ÷ 800 V
DC Voltage: rated/maximum	455 / 900 V
DC Current: rated/maximum	660 A / 780 A
AC OUTPUT PARAMETERS	
Rated AC power @ 50°C	330 kVA
Nominal voltage	400V
Nominal AC Voltage range	340...440 V
Nominal frequency	50 / 60 Hz
Nominal frequency range	47,5...51,5 Hz / 56,4...62,4 Hz
Nominal Current	480 A
Short Circuit current	655 A
Power Factor / Displacement power factor adjustable	1 / 0,9 Inductive to 0,9 capacitive
THD(I)	< 3%
EFFICIENCY	
Maximum / European efficiency	98,1% / 97,4%
GENERAL DATA	
Dimensions (W / H / D)	1210 / 2310 / 650 mm
Weight	1200 kg
Operating temperature range (no derating)	-5°C / +50°C
External auxiliary supply	230V / 400V 3F
Max self-consumption @ rated power	430 W
Max humidity (non-condensing) / Max altitude	95 % / asl 1000m
GENERAL DATA	
DC-side disconnection device	Load-break switch
DC overvoltage protection	Surge Suppressors
DC fuses	Included
AC-side disconnection device	AC circuit breaker
AC overvoltage protection	Surge Suppressors
Grid management functions	Active Power limit, Reactive power set, LVRT
EMC and safety standards	EN 50178, EN 62109-1, EN 61000-2, EN 61000-6-4
Grid code certificates	Italy CEI-0-16, Thailand PEA, SouthAfrica SAGC