

### ZIGOR SOLAR XTR3

Three-phase string inverter range

#### Description

The ZIGOR SOLAR XTR3 string inverters are easy operation devices that have been designed to cover the needs of all mains connected solar generation plants. In an effort to improve the yield of solar plants, these inverters offers a very high efficiency, exceeding 97%.

The ZIGOR SOLAR XTR3 inverters stand out due to its new web server application, accessible through its SNMP connection. In addition to this the new string inverters range provides a LCD display, where the customer is able to access all inverter information, including production data.

This new family of string inverters can work at input DC voltages between 300 to 800 VDC and their housing has IP54.



ZIGOR SOLAR XTR3

#### Features

- > Maximum power point tracking (MPPT)
- > High energy efficiency, higher than 97%
- > Very low harmonic distortion, THD <3%
- > Direct mains connection
- > Unlimited parallel connection arrangements
- > Anti-islanding protection with automatic shut down
- > Monitoring from the unit with LCD
- > Protection against: inverse polarity, short-circuits, over voltages, isolation failure
- > SNMP connection: Web server included
- > Range of input DC voltages (300-800 VDC)
- > Compact size, light weight, easy installation
- > Built-in production log capacity

#### Connectivity and accessories

##### > Built-in & integrated Web Server

This is a PC-based Web server programme to provide full access to the inverter data and to monitor and communicate with ZIGOR SOLAR XTR3 inverters. The Web server let the user to communicate with the inverters in different languages and records the following data: status, parameters, events, event log, production.



See more information about connectivity and options on page 44

on-grid solar plants

mid voltage solar plants

hybrid generation

energy saving

telecom back up

wind energy



**ELECTRICAL CHARACTERISTICS**

Model	ZIGOR SOLAR	ZIGOR SOLAR	ZIGOR SOLAR	ZIGOR SOLAR
	XTR3 10	XTR3 13	XTR3 15	XTR3 20
Reference	301763	301764	301765	301766
Nominal output power	10 kW	13 kW	15 kW	20 kW

**SYSTEM**

Conversion mode	High frequency PWM
Electromechanical method	Low loss transformer (optional)

**DC INPUT**

Nominal DC voltage	640 V
Maximum DC voltage (1)	1000 V
Operating range DC	300-800 V
No. Independent MPPT	3(12 A Max)      3(15,6 A Max)      3(18 A Max)      3(25 A Max)

**AC OUTPUT**

No. Phases/No. Wires	3- phase/3- wires or 3 – phase/ 4 – wires
Nominal voltage AC	3x400V
Nominal frequency	50/60 Hz
Nominal output current AC	14,5 A      19 A      22 A      29 A
Harmonic distortion range for nominal current (2)	<3%
Power factor	Over 0.99 (at nominal output current)
Maximum efficiency	97,7%
European efficiency	96,8%

**PROTECTION**

Input	Ground fault / DC isolation fault
Output	Over-under voltage/ Over-under frequency / Islanding
Protection class	IP 65 (electronics) / IP 54 (others)

**COMMUNICATIONS**

Protocol	MODBUS (RTU, TCP/IP, ASCII) y SNMP
Standard	TCP/IP Ethernet,RJ11, USB
Optional	RS 485

**ENVIRONMENTAL CHARACTERISTICS**

Temperature	-20°C to +50°C/ -4°F to +122°F
Relative humidity	0-90% without condensation
Altitude	< 2000m

**MECHANICAL CHARACTERISTICS**

Dimensions mm (WxHxD)	480 x 665 x 220
Estimated weight kg	39
Cooling	Optimized refrigeration

**STANDARDS**

Certificates	CE Marking
Directives	2004/108/CE 2006/95/CE
Standards	IEC 60146, IEC 62116 EN 62109-1, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3

**Countries standards**

USA	UL 1741, IEEE 1547
Italy	CEI 0-21
Germany	VDE 4105
England	G83/1-1, G59/2

*These specifications may be changed without notice.*

(1) This voltage must not be exceeded under any circumstances.

(2) For THDV<1% and Nominal Power.