

ZGR SOLAR CTR 150/300

CENTRAL THREE-PHASE INVERTERS

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inverters are specially designed to improve the performance of medium-large solar plants.

ZGR SOLAR CTR inverters have been specially designed to improve performance and reduce volume in medium-large solar plants. The range of three-phase inverters ZGR SOLAR CTR is 150 and 300 kW.

Likewise, the range of ZGR SOLAR CTR inverters offers high reliability and guarantee of operation. It should be noted that with these inverters has been achieved an unbeatable power density per unit of volume, making possible a significant reduction in the space required for medium-large solar plant investors.

Another important feature is its automatic reactive regulation and its communication capabilities between them and the centralized supervision and control system. All its parameters are configurable locally and also remotely.

ZGR SOLAR CTR inverters operate with a 3 x 400 V output voltage and are adapted to several regulations for compliance with the response requirements for voltage sags without disconnection.



APPLICATIONS



PV ON-GRID



PV MEDIUM VOLTAGE



HYBRID GENERATION



ENERGY SAVING

CHARACTERISTICS

- » Wide input voltage range (590 - 850 Vdc)
- » Maximum Power Point Tracking (MPPT)
- » High energy efficiency MPPT > 99%
- » Very low harmonic distortion THD < 3%
- » Selectable power factor
- » Parallel connection without limitation
- » Anti-island protection with automatic disconnection
- » Local monitoring via LCD
- » Remote monitoring via Web Server
- » Degree of environmental protection IP20
- » DC and AC protections included
- » Protection against:
 - Reverse - polarity
 - Short-circuits
 - Overvoltages
 - Isolation faults
- » Automatic reactive power regulation
- » Peak efficiency of 98,5%
- » Level II box integration with current measurement *
- » Communications: Ethernet

* Optional

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CONNECTIVITY AND MONITORING

INTEGRATED WEB SERVER

Communication gateway integrated. It enables the communication via Web server (http). The web server provides full access to all information of ZGR SOLAR CTR 150/300: voltage and current measures, alarms, configuration, etc.

TECHNICAL SPECIFICATIONS		
Model	ZGR SOLAR CTR 150	ZGR SOLAR CTR 300
ELECTRICAL CHARACTERISTICS		
Output maximum power (AC)	150 kVA	300 kVA
FV recommended maximum power	+5 % to +20 %	
AC nominal voltage	3 x 400 V	
Frequency range	50 / 60 Hz	
Power factor	1 adjustable $\pm 0,8$ (without exceeding the apparent power of the equipment)	
AC nominal line current	217 A	435 A
AC current distortion	< 3% THD at nominal power ⁽¹⁾	
AC maximum fault current	250 A	450 A
AC maximum overcurrent protection	250 A	450 A
DC maximum Power Point Tracking range (MPPT)	590- 850 Vdc	
DC maximum input current	260 A	521 A
Peak efficiency	98,5 %	98,5 %
European efficiency	97,9 %	98,2 %
COMMUNICATIONS		
Monitoring	Webserver via Ethernet	
Control panel	LCD display	
PROTECTIONS		
Protections	Reverse – polarity, AC surge/ AC overvoltage, Over/Under frequency, DC overvoltage	
Isolators (AC and DC)	Integrated into the system	
Monitoring and self diagnosis	Yes	
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS		
Range ambient temperature	-10 °C to +55 °C	
Cooling	Forced ventilation	
Degree of environmental protection	IP20	
Operating altitude	1000 m without power loss	
Relative humidity	0 to 95 % without condensation	
Approx. Weight	350 kg	450 kg
STANDARDS		
Marks	CE	
General directives	2004/108/CE (UNE-EN 61000-6-2 / UNE-EN 61000-6-3), 2006/95/CE (IEC 62109-1, IEC 62109-2)	
Regulations	IEE 1547	
International regulations Spain	P.O. 12.3	
International regulations Germany	BDEWTG	

* Customized configurations under demand. Consult ZIGOR.
* These specifications may change without notice.

DIMENSIONS

ZGR SOLAR CTR 300



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