ZGR SOLAR CTR 1250 - 1500
CENTRAL THREE-PHASE INVERTERS

always ON

ZGR SOLAR CTR 1250 - 1500 inverters provide high performance with reduced dimensions.

ZGR SOLAR CTR 1250 - 1500 inverters have been specially designed to improve performance and reduce volume in medium-large solar plants. Three-phase ZGR SOLAR CTR inverters from 1250 to 1500 kW stand out for their high efficiency.

Likewise, the range of ZGR SOLAR CTR 1250 - 1500 inverters offer high reliability and guarantee of operation. It should be noted that with these inverters an unbeatable power density per unit of volume has been achieved, 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 1250 - 1500 inverters are adapted to several regulations to meet the requirements for response to voltage dips without disconnection.

Moreover, container solutions are a perfect for medium-large-scale projects and are specially designed to meet the most demanding specifications and to operate under adverse environmental conditions.

CONTAINER

APPLICATIONS

PV ON-GRID

PV MEDIUM VOLTAGE

ENERGY SAVING

CHARACTERISTICS

- Input voltage range (800-1300 Vdc)
- Maximum Power Point Tracking (MPPT)
- High energy efficiency MPPT > 99%
- Very low harmonic distortion, THD < 3%
- Selectable power factor
- Anti-island protection with automatic disconnection
- Equipment monitoring by graphic display
- Degree of environmental protection IP21(in container IP 54)
- Easy maintenance
- Protection against:
  - Reverse - polarity
  - Short-circuits
  - Overvoltages
  - Isolation faults with relay output

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TECHNICAL SPECIFICATIONS		
Model	ZGR SOLAR CTR 1250	ZGR SOLAR CTR 1500
Power	1250 kW	1500 kW
ELECTRICAL CHARACTERISTICS		
PV recommended power	+ 5 % to -20 %	
Nominal voltage	3 x 550 V	3 x 600 V
Nominal frequency	50 / 60 Hz	
Power factor	1 adjustable ± 0,9	
AC nominal line current	1312 A	1443 A
AC current distortion	< 3% THD at nominal power	
Maximum Power Point Tracking range (MPPT)	800 - 1300V	900 - 1300V
Maximun open circuit voltage	1500 V	
Stand-by losses	< 50 W	
DC maximum input current	1750 A	1870 A
Peak efficiency	99 %	
European efficiency	98,7 %	
PROTECTIONS		
AC leakeage current fault	Yes	
Ground fault detection	Yes	
LVRT	Yes	
Anti-islanding	Yes	
Reverse – polarity	Yes	
AC / DC overvoltage suppressors	Yes	
AC surge/ AC undervoltage	Yes	
DC overvoltage	Yes	
AC and DC isolators	Integrated into the system	
Over/Under frequency	Yes	
Monitoring: self-testing	Yes	
COMMUNICATIONS		
Monitoring	Graphical interface	
Communications	Modbus RTU	
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS		
Cooling	Forced ventilation	
Range ambient temperature	-10 °C to + 60°C	
Derating	> 55 °C	> 50 °C
Degree of environmental protection	IP21 (in container IP64)	
Operating altitude	3000 m without power loss	
Relative humidity	0 a 95 % without condensation	
Noise level	< 65 dB	
Dimensions	1600 x 750 x 2100 mm (container option 2991 x 2438 x 2591 mm)	
Approx. Weight	1600 kg	

** These specifications may change without notice.*

DIMENSIONS

INDOOR

OUTDOOR

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