ZGR SOLAR STR 200 /250

THREE-PHASE STRING INVERTERS

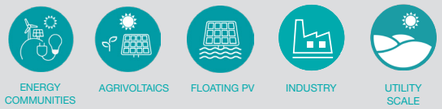
ZGR SOLAR STR 200 / 250 solar inverters offer high energy efficiency with a compact design, being ideal for solar plants small-medium size.

ZGR SOLAR STR 200 / 250 string inverters are easy-to-use devices that have been designed to meet the needs that arise in all grid-connected solar generation plants.

These inverters offer high energy performance, greater than 98%. Inverters ZGR SOLAR STR 200 / 250 have LED indicators, to facilitate management of the investor.

This range of string inverters offers a voltage range DC input, at full load, between 880 to 1300 Vdc; and a protection rating IP 66.

Applications

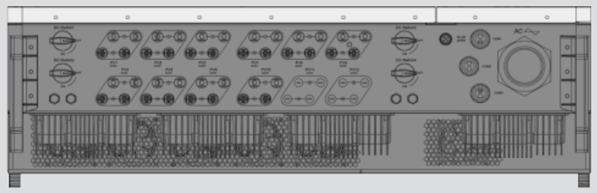


Characteristics

- Multiple Maximum Power Point Trackers (MPPT)
- High energy efficiency greater than 98%
- Very low harmonic distortion, THD <3%
- Direct connection to the Grid or to step-up transformer
- Parallel connection without limitation
- Anti-island protection with automatic disconnection
- Protection against:
  - Reverse polarization
  - Short circuits
  - Overvoltages
  - Insulation faults
- Compact design for easy installation

TECHNICAL SPECIFICATIONS		
Model	ZGR SOLAR STR200	ZGR SOLAR STR250
INPUT [DC]		
Max. PV voltage	1500 V	
MPPT range	880 - 1300 Vdc	
Nominal input voltage	1080 V	
DC starting voltage	650 V	
MPPT number	12	
Strings per MPPT	2	
Max . Current per MPPT	30 A	
Max. Short-circuit current per MPPT	40 A	
Max. DC Current	360 A	
OUTPUT [AC]		
Nominal AC output power	200 kW @40°C	250 kW @40°C
Max. AC apparent power	175 kW @50°C	225 kW @50°C
Max. AC output power	200 kVA	250 kVA
Nominal AC Voltage	800 Vac, 640 - 960 V	
AC Conection	3 W + N + PE	
AC frequency range	50/60 Hz (± 5 Hz) (adjustable)	
Nominal Output current	126,3 A	162,4 A
Max. Output current	144,3 A	180,4 A
Power factor range	0.8 leading - 0.8 lagging	
THDi	< 3%	
EFFICIENCY		
Efficiency (max) ()	99 %	
Euroeta ()	98,6 %	
PROTECTIONS		
Protections	DC switch, Anti-islanding Protectión, Protection; Reverse Polarity DC Connection, String fault detection, Overvoltage DC/AC, Insulation Failure, Overcurrent Protection, AC short circuit.	
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS		
Topology	Transformerless	
Input terminal	Amphenol	
Cooling Method	Forced air cooling (Fan)	
Operating Temperature Range	-25°C - 60°C (>40°C derating)	
IP class	IP66	
Protection Degree	Clase I	
Noise emissions	≤ 65 dB	
Max. Operating altitude	< 4000m without derating	
Pollution Degree	PD3	
Relative Humidity	0 - 100% (non-condesing)	
Dimensions (Height x Width x Length)	1055 x 700 x 336 mm	
Weight	96 Kg	
COMMUNICATIONS		
Communications	RS485	
REGULATIONS		
Certifications and standards	EN 62109-1: 2011 & EN 62109-2:2013; EN 61000-6-2 & EN 61000-6-4; VDE 0126-1-1;RD 244/2019 & UNE 217001:2020; EN 206007 &; UNE 217002:2020; Reglamento UE2016/631: NTS 631 v2	

Connections



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