

# ZGR SOLAR STR 120 / 200 / 250

THREE-PHASE STRING INVERTER



always ON

The **ZGR SOLAR STR 120 / 200 / 250** solar inverters offer high energy efficiency with a compact design, being ideal for medium to large sized solar plants.

ZGR SOLAR STR 120 / 200 / 250 string inverters are user-friendly devices designed to meet the needs of all grid-connected solar power plants.

In an effort to improve the performance of solar plants, these inverters offer a high energy efficiency, greater than 98%. The ZGR SOLAR STR 120 / 200 / 250 inverters have LED indicator, to facilitate the user's inverter management.

This new range of string inverters offers an input DC voltage range, at full load, between 880 and 1300 Vdc and an IP 66 protection degree.



## APPLICATIONS



PV ON-GRID



PV MEDIUM VOLTAGE



ENERGY SAVINGS

## CHARACTERISTICS

- » Maximum Power Point Tracking (MPPT)
- » High efficiency, greater than 98%
- » Reduced harmonic distortion, THD <3%
- » Direct connection to step-up transformer
- » Parallel connection without limitation
- » Anti-island protection with automatic disconnection
- » Local monitoring via LED indicators
- » Protection against
  - Reverse - polarity
  - Short-circuits
  - Overvoltages
  - Isolation faults
- » Compact design and easy installation

ZGR SOLAR STR 120 / 200 / 250 THREE-PHASE STRING INVERTER

TECHNICAL SPECIFICATIONS			
Model	ZGR SOLAR STR 120	ZGR SOLAR STR 200	ZGR SOLAR STR 250
INPUT ELECTRICAL CHARACTERISTICS			
Max. DC voltage	1100 V	1500 V	
MPPT voltage range	200 – 1000 Vdc	600 - 1500 Vdc	
MPPT voltage range at full load	550 - 850 V	880 - 1300 Vdc	
Nominal input voltage	620 V	1080 V	
Start DC voltage	200 V	650 V	
Number of MPPT	10	12	
Strings per MPPT	2	2	
Max. input current per MPPT	26 A	30 A	
Max. short-circuit current per MPPT	40 A	40 A	
OUTPUT ELECTRICAL CHARACTERISTICS			
Nominal AC output power	120 kW @25 °C, 110 kW @40 °C, 100 kW @50 °C	200 kW @40 °C, 175 kW @50 °C	250 kW @40°C, 225 kW @50°C
Max. AC apparent power	121 kVA	200 kVA	250 kVA
Max. AC output power	120 kW	200 kW	250 kW
Nominal AC voltage	400 Vac, 320 ~ 480 V	800 Vac, 640 ~ 920 V	
AC connection	3W + PE (by default), 3W + N+ PE (configurable)	3 W + PE	
AC grid frequency range	50/60 Hz (± 5 Hz) (adjustable)		
Rated output current	173,9 A	126,3 A	162,4 A
Max. output current	176,4 A	144,3 A	180,4 A
Power factor	0.8 leading ~ 0.8 lagging		
THDi	< 3%		
PROTECTIONS			
Protections	DC switch, Anti-islanding protection, AC Short-circuit, DC anti reverse connection, String fault Detection, AC leakage current fault, Insulation detection, Grid monitor	DC switch, Anti-islanding protection, Output over current, DC anti reverse connection, String fault Detection, DC surge protection, AC surge protection, Insulation detection, LVRT	
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS			
Topology	Transformerless		
Input terminal	Amphenol		
Cooling type	Fan cooling		
Operating temperature range	-25 °C~ 60 °C (> 40 °C derating)		
Protection rating	IP66		
Noise emission	≤ 65 dB		
Humidity	0~100% (without condensation)		
Dimensions (W * H * D)	1055 x 700 x 336 mm		
Approx. Weight	93 Kg	110 Kg	
STANDARDS			
Certification & Standards	EN/IEC 62109-1/2; EN 61000-6-1; EN 61000-6-3; IEC61727; VDE 0126-1-1; UNE 217001:2015 IN & ITC-BT-40 ANEXO I; UNE 217002:2020; RD647/2020+TED749/2020(NTS)		

\* These specifications may change without notice.



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