

# ZGR SOLAR STR 20 / 40 / 50

THREE-PHASE STRING INVERTERS



always ON

## ZGR STR 20 / 40 / 50

solar inverters offer high energy efficiency with a compact and lightweight design.

String inverters ZGR SOLAR STR are easy-to-use devices that have been designed to meet the needs of all solar power plants connected to the grid.

In an effort to improve the performance of solar plants, these inverters offer high energy efficiency, greater than 98%.

ZGR SOLAR STR inverters have an LCD display, to make it easier for the user to access the information of the inverter and its parameters.

This new range of string inverters offers a DC input voltage range between 480 to 800 Vdc and an IP 65 tightness rating.



## APPLICATIONS



INDUSTRY



PHOTOVOLTAIC



SELF-  
CONSUMPTION

## CHARACTERISTICS

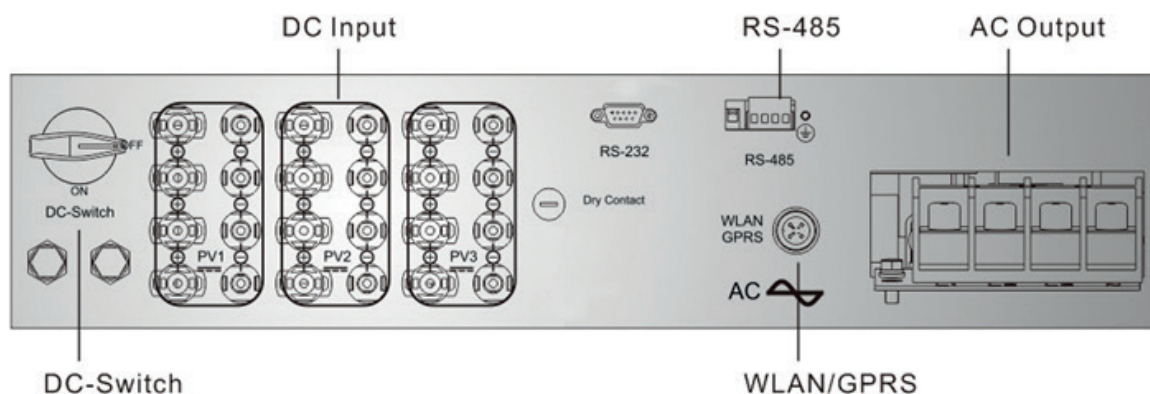
- » Maximum Power Point Tracking (MPPT)
- » High efficiency, greater than 98%
- » Reduced harmonic distortion, THD <3%
- » Direct grid connection
- » Parallel connection without limitation
- » Anti-island protection with automatic disconnection
- » Local monitoring via LCD
- » Protection against
  -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

ZGR SOLAR STR 20 / 40 / 50 THREE-PHASE STRING INVERTERS

TECHNICAL SPECIFICATIONS			
Equipment	ZGR SOLAR STR 20	ZGR SOLAR STR 40	ZGR SOLAR STR 50
Model	20K	40K	50K
INPUT ELECTRICAL CHARACTERISTICS			
Maximum AC power	22 kW	44 kW	55 kW
FV maximum voltage	1000 V		
FV nominal voltage	620 V		
Voltage range (MPPT)	250 V ~ 950 V		
Voltage range (MPPT) at nominal power	480 V~ 800 V		
MTTP number	2	3	3
Maximum input current	2 x 21 A	3 x 28 A	3 x 3* A
OUTPUT ELECTRICAL CHARACTERISTICS			
Output nominal power	20KW	40 kW	50 KW
Maximum output current	32 A	* A	) \$ A
AC output voltage	400 Vac ± 20 %		
Frequency range	50 / 60 Hz ± 5 Hz		
Power factor range	0.8 capacitive / inductive		
THDi	< 3 %		
Wiring type	3 Phases + N + Ground / 3 Phases + Ground		
COMMUNICATIONS			
Monitoring	LCD display		
Communications	RS485		
GENERAL CHARACTERISTICS			
Maximum efficiency	98 %	98.6 %	98.6 %
European efficiency	97.5 %	98.2 %	98.2 %
Cooling	Natural convection	Forced ventilation	Forced ventilation
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS			
Range ambient temperature	-25 °C to +60 °C		
Degree of environmental protection	IP65		
Noise Level	< 40 dB	< 60 dB	< 60 dB
Operating altitude	< 3000 m without power loss		
Relative humidity	0 to 95 % without condensation		
Dimensions (AlxAnxF)	715 x 553 x 228 mm	958 x 636 x 260 mm	958 x 636 x 260 mm
Approx. Weight	39 kg	68 kg	68 kg
STANDARDS			
Certification & Standards	EN/IEC 62109-1/2; IEC61727; IEC62116; EN 50549; VDE-AR-N-4110		

\* These specifications may change without notice.

## CONNECTIONS



## DIMENSIONS

ZGR SOLAR STR 20



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