

ZGR SOLAR STR 2 / 3 / 4 / 5

STRING SINGLE-PHASE INVERTERS



ZGR STR 2 / 3 / 4 / 5 inverters offer high energy efficiency with compact and lightweight design, being ideal for residential integrations.

ZGR SOLAR STR string inverters are easy-to-use devices that have been designed to meet the needs of residential grid connection.

In an effort to improve the functionalities of domestic photovoltaic installations, these inverters offer efficiency greater than 97% as well as local and remote monitoring functionalities.

This new range of string inverters offers a power range between 2 and 5 kW, with a noise level below 35dB, not affecting the comfort of the household.



APPLICATIONS



DOMESTIC
USE



PHOTOVOLTAIC



ENERGY
SAVINGS



SELF-
CONSUMPTION

CHARACTERISTICS

- » Maximum Power Point Tracking (MPPT)
- » Efficiency greater than 97%
- » Reduced harmonic distortion <3%
- » Suitable for integration into self-consumption facilities
- » Local monitoring via LCD
- » Easy installation (Plug & Play)
- » Compact and lightweight design
- » Reduced noise level
- » Cooling by natural ventilation

ZGR SOLAR STR 2 / 3 / 4 / 5 STRING SINGLE-PHASE INVERTERS

TECHNICAL SPECIFICATIONS				
Model	ZGR SOLAR STR 2	ZGR SOLAR STR 3	ZGR SOLAR STR 4	ZGR SOLAR STR 5
Power	2000 W	3000 W	4000 W	5000 W
INPUT ELECTRICAL CHARACTERISTICS				
FV maximum voltage	500 Vdc	500 Vdc	500 Vdc	500 Vdc
Voltage range (MPPT)	80 - 500 Vdc	80 - 500 Vdc	100 - 490 Vdc	100 - 490 Vdc
Voltage range (MPPT) for full power	200 - 450 Vdc	240 - 450 Vdc	165 - 400 Vdc	200 - 400 Vdc
Number of MTTP	1		2	
DC maximum current per input	11 A	13 A	2 x 13 A	2 x 13 A
OUTPUT ELECTRICAL CHARACTERISTICS				
Output maximum power	2000 W	3000 W	4000 W	5000 W
AC output nominal voltage	230V ± 20%			
Frequency range	50 / 60 Hz (± 5 Hz)			
Power factor	1 (± 0,9 - adjustable)		1 (± 0,8 - adjustable)	
THDi	< 3 %			
COMMUNICATIONS				
Monitoring	LCD display			
Communications	RS 485			
PROTECTIONS				
AC leakage current fault	Yes			
Ground fault detection	Yes			
Anti-islanding	Yes			
Reverse – polarity	Yes			
AC surge	Yes			
DC overvoltage	Yes			
GENERAL CHARACTERISTICS				
Maximum efficiency	97,6 %		97,5 %	
European efficiency	97 %			
MPPT efficiency	> 99,9 %			
Cooling	Natural convection			
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS				
Range ambient temperature	-25°C to +60°C (> 45°C derating)			
Degree of environmental protection	IP 65			
Relative humidity	0 to 95 % without condensation			
Noise level	<25 dB	<25 dB	<35 dB	<35 dB
Dimensions	264 x 326 x 127 mm		329 x 466 x 149 mm	
Approx. Weight	8,1 kg	8,6 kg	14,9 kg	15,5 kg
STANDARDS				
Certification & Standards	EN/IEC 62109-1/2; EN 61000-6-1; EN 61000-6-3; VDE-AR-N 4105: 2011; UNE 217001:2015 IN & ITC-BT-40 ANEXO I; UNE 217002:2020, VDE 0126-1-1			

* These specifications may change without notice.

DIMENSIONS

ZGR SOLAR STR 2/3



ZGR SOLAR STR 4/5



CONNECTIONS

ZGR SOLAR STR 4/5



ZGR SOLAR STR 2 / 3 / 4 / 5 STRING SINGLE-PHASE INVERTERS