ZGR SOLAR STRci 30 / 40 / 50

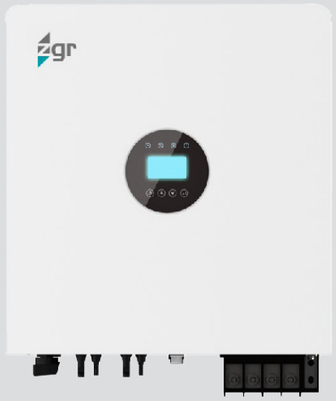
THREE-PHASE STRING INVERTERS

The **ZGR SOLAR STRci 30 / 40 / 50** offer high energy performance in a compact and lightweight design.

The ZGR SOLAR STRci string inverters are easy-to-use devices that have been designed to meet the energy needs. Given its power, they are ideal for commercial and small industrial self-consumption, where the aim is to reduce the consumption of the electrical grid.

In an effort to improve the performance of solar plants, these inverters offer high energy performance of over 98%. The ZGR SOLAR STRci inverters are equipped with an LCD display, to provide the user with easy access to inverter information and its parameters.

This new range of inverters achieves the maximum utilization of the energy delivered by the photovoltaic panels by handling multiple MPPT of the inverter string and offers a wide DC input voltage range between 200 and 1000 Vdc; and a rating of protection IP 66.



Applications

Characteristics

- Multiple Maximum Power Point Trackers (MPPT)
- High energy efficiency greater than 98%.
- Very low harmonic distortion, THD <3%.
- Direct grid connection
- Parallel connection without limitation
- Anti-islanding protection with automatic disconnection
- Protection against:
  - Reverse polarization
  - Short circuits
  - Overvoltages
  - Insulation faults
- Compact and lightweight design, easy installation

TECHNICAL SPECIFICATIONS			
Model	ZGR STRci30	ZGR STRci40	ZGR STRci50
INPUT [DC]			
Max. PV voltage	1100 V		
Nominal input voltage	650 V		
DC starting voltage	180 V		
MPPT range	200 ~ 1000 V		
No. of MPPT trackers	4		
Strings per MPPT	2		
Max . Current per MPPT	32 A		
Max. Short-circuit current per MPPT	48 A		
OUTPUT [AC]			
Nominal AC output power	30 kW	40 kW	50 kW
Max. Output current	43 A	58 A	72 A
Nominal AC voltage	400 V (3L + N + PE)		
AC frequency range	50/60 Hz (± 5 Hz)		
Power factor range	0.8 leading - 0.8 lagging		
THDi	< 3%		
EFFICIENCY			
Max. efficiency	98.5%		
European efficiency	98.2%		
PROTECTIONS			
Protections	DC switch, Anti-islanding Protection,Reverse Polarity DC Connection, String fault detection, Overvoltage DC/AC type II, Ground fault monitoring, Overcurrent Protection, AC short circuit.		
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS			
Topology	Transformerless		
Cooling Method	Forced air cooling (Fan)		
Operating Temperature Range	-25°C - 60°C		
Protection Class	IP66		
Operating Altitude	4000 m		
Relative Humidity	0 - 100% non-condesing		
Dimensions (Height x Width x Length)	515 x 585 x 287 mm		
Weight (aproximate)	45.6 kg	48 kg	51 kg
COMMUNICATION			
Display	LCD		
Comunications	RS485 / Wifi / 4G		
COMPLIANCE			
Certification & Standards	IEC 62109-1; IEC 62109-2; IEC 61000-6-1; IEC 61000-6-3; IEC61000-6-2; IEC61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; NC RfG; NRS 097; VDE-AR-N-4105; VDE0126; CEI0-21; C10/C11; NTS tipo A y B.		

These specifications may change without notice

Connections