

ZGR SOLAR STS

STRING STATION – 2000 / 4000 LV
– 2500 MV

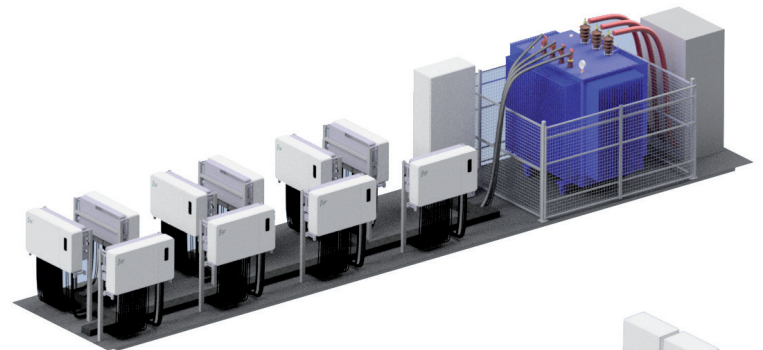
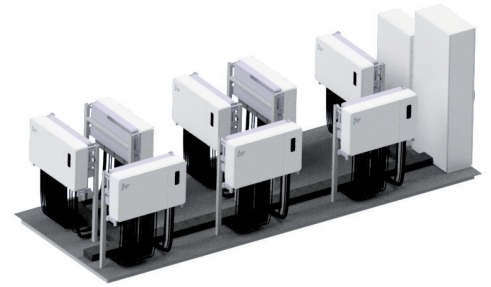


ZGR SOLAR STS is the ideal turnkey solution for large photovoltaic plants.

The ZGR SOLAR STS is a Plug&Play solution in Skid, fully equipped with inverters, optionally connected to a transformer station and medium voltage cells, as well as auxiliary services and communications for use in photovoltaic installations.

It is a turnkey solution that makes possible to increase the overall efficiency of a conversion system and reduce installation costs.

All the electronic equipment are adapted according to the technical needs required by the installation and are combined to achieve maximum performance, efficiency and uninterrupted operation throughout its service life.



APPLICATIONS



PV ON-GRID



PV MEDIUM VOLTAGE



ENERGY SAVINGS

CHARACTERISTICS

- » Wide range of input voltage
- » Modular – Standard String inverters
- » Active and reactive power control
- » LVRT / HVTR / FRT functions
- » Transportable skid in standard container
- » Easy installation (Plug & Play)
- » Medium voltage transformer*
- » Multiple protections
- » Modular outdoor design for easy maintenance
- » Customized designs according to project needs

* Optional

ZGR SOLAR STS STRING STATION 2000 / 4000 LV - 2500 MV

TECHNICAL SPECIFICATIONS			
Model	ZGR SOLAR STS 2000 LV	ZGR SOLAR STS 4000 LV	ZGR SOLAR STS 2500 MV
Power	2000 kVA	4000 kVA	2500 kVA
INPUT ELECTRICAL CHARACTERISTICS			
Nominal voltage	1080 V		
MPPT voltage range	600 – 1500 Vdc		
String inverter model	ZGR SOLAR STR 250		
Number of inverters	8	16	10
OUTPUT ELECTRICAL CHARACTERISTICS			
Output nominal power	2000 kW @40 °C, 1800 kW @50°C	4000 kW @40 °C, 3600 kW @50°C	2500 kW @40 °C, 2250 kW @50°C
Output maximum power	2000 kVA	4000 kVA	2500 kVA
Output nominal voltage LV	800 Vac, 640 ~ 920 V		
Output nominal voltage MV	–	–	10 - 35kV ⁽¹⁾
Frequency range	50/60 Hz (± 5 Hz) (adjustable)		
Power factor	0.8 leading ~ 0.8 lagging		
THDi	< 3%		
PROTECTIONS			
AC leakage currents detection	Yes		
Ground leakage protection	Yes		
LVRT	Yes		
Anti-islanding	Yes		
DC reverse polarity	Yes		
AC surge	Yes		
DC overvoltage	Yes		
GENERAL CHARACTERISTICS			
Maximum efficiency (ZGR SOLAR STR 250)	99%		
European efficiency (ZGR SOLAR STR 250)	98,5%		
MPPT efficiency (ZGR SOLAR STR 250)	> 99%		
Cooling	Natural ventilation		
Communications	RS 485, Ethernet (optional)		
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS			
Range ambient temperature	-25 °C~ 60 °C (> 40 °C derating)		
Degree of environmental protection	Outdoors		
Operating altitude	2000 m (without power loss)		
Noise level (ZGR SOLAR STR 250)	≤ 70 dB		
Relative humidity	0 a 100% (without condensation)		
Aprox. dimensions (An*Al*F)	6 x 2,2 x 2,2 m (20 feet)	12 x 2,2 x 2,2 m (40 feet)	12 x 2,5 x 2,2 m (40 feet)

* These specifications may change without notice.

⁽¹⁾ Customizable values according to project