

# ZGR SOLAR PS

## POWER STATION 2500/6250

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

ZGR SOLAR PS is a plug and play solution in a metal container, fully equipped with inverters connected to a transformation centre and medium-voltage switchgear, in addition to auxiliary services and communications for use in photovoltaic plants.

It is a turnkey solution that allows increasing the overall efficiency of a conversion system and reducing installation costs.

All the electronic equipments that compose system are adapted according to the technical specifications required and combined to reach maximum performance, efficiency and uninterrupted operation throughout its useful life

ZGR SOLAR PS 2500



ZGR SOLAR PS 6250



### APPLICATIONS



PV ON-GRID



PV MEDIUM VOLTAGE



ENERGY SAVING

## CHARACTERISTICS

- » Wide range of input voltage
- » Up to 60 DC inputs
- » Active and reactive power control
- » LVRT / HVRT / FRT functions
- » Standard container of 20/40 feet
- » Easy installation (Plug & Play)
- » Medium voltage transformer
- » Multiple protections
- » Modular interior design for easy maintenance

TECHNICAL SPECIFICATIONS		
Model	ZGR SOLAR PS 2500	ZGR SOLAR PS 6250
Power	2500 kW	6250 kW
INPUT ELECTRICAL CHARACTERISTICS		
Voltage range	1500 Vdc	
Maximum Power Point Tracking range (MTTP)	800 – 1300 Vdc	900 - 1300 V
Number of Inputs	20 - 24	60
MTTP number	2	4
Maximum DC input current	3500 A	8160 A
OUTPUT ELECTRICAL CHARACTERISTICS		
Output nominal power	2500 kW/kVA	6250 kW/kVA
Output maximum power	2750 kW	7200 kW
LV output nominal voltage	550 V 630 V	630 kV
MV output nominal voltage	10-35 kV	10-35 kV
Frequency range	50 / 60 Hz (± 4,5 Hz) (adjustable)	50 / 60 Hz (± 5 Hz) (adjustable)
Power factor	1 (± 0,9) (adjustable)	1 (± 0,8) (adjustable)
THDi	< 3 %	
PROTECTIONS		
AC leakage current fault	Yes	
Ground fault detection	Yes	
LVRT	Yes	
Anti-islanding	Yes	
DC reverse – polarity	Yes	
AC surge	Yes	
DC overvoltage	Yes	
GENERAL CHARACTERISTICS		
Maximum efficiency	99 %	
European efficiency	98,7 %	
MPPT efficiency	> 99 %	
Cooling	Forced ventilation	
Communications	RS 485, Ethernet (optional)	
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS		
Range ambient temperature	-40 °C to +60 °C (derating from 50 °C)	
Degree of environmental protection	IP54	
Operating altitude	2000 m	
Relative humidity	0 to 95 % without condensation	
Noise level	< 65 dB	< 60 dB
Dimensions	6058 x 2438 x 2896 mm (20 feet)	12192 x 2438 x 2896 mm (40 feet)

\* These specifications may change without notice.

## DIMENSIONS

### ZGR SOLAR PS 2500



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