

# ZGR SWIT NG

## SWITCHING CHARGER - RECTIFIER

ZGR SWIT NG modules and equipments provide maximum efficiency with a highly compact design

The range of ZGR SWIT NG chargers, based on high frequency switching technology, benefits from the advantages inherent in such technology achieving a compact and easy-to-use equipment that can be installed in 19" cabinets.

ZGR SWIT NG units integrate all the functions of a high-performance charger in the same module, such as charge management, battery current limitation, remote alarms, end of discharge, protections, among other functions.

ZGR SWIT NG are offered as independent modules or integrated into complete systems. ZIGOR has developed the ZGR SWIT NG range, a rectifier / charger system that ensures the supply of consumers at all times, both in the presence of the mains and in the absence of it, until the end of the system's battery autonomy.

ZGR SWIT NG System



ZGR SWIT NG Module



### Applications



### Characteristics

- High efficiency
  - Wide range of customized solutions from 500 to 1000 W in 24/48/110/125V
  - Integrated battery disconnecter
  - Reduced voltage harmonic distortion
  - Low input current distortion
  - Battery temperature compensation\*
  - Easy installation, front wiring
  - Ni-Cd or sealed Pb battery management
  - Installation in integrated wall cabinet, module 19" and battery
  - Control and signalling
    - Rectifier defect
    - Battery ground leakage\*
    - Maximum output voltage
  - Next end of autonomy
  - Presence of mains
  - Voltmeter and ammeter\*
  - Dry contacts for remote signalling
  - Protections
    - Magnetothermal battery protection
    - Overvoltage protection
    - Input fuse protection\*
    - Module over-temperature
    - Short-circuit
    - Current limitation
    - Low Voltage Disconnection (LVD)
- \* Optional

### TECHNICAL SPECIFICATIONS

Model	ZGR SWIT NG		
Output voltage	24Vcc	48Vcc	110/125 Vcc

### INPUT ELECTRICAL CHARACTERISTICS

Nominal voltage	230 V ± 15 %		
Nominal frequency	50 Hz ± 10 %		
Power factor	0.99 for charge > 60 %		

### OUTPUT ELECTRICAL CHARACTERISTICS

Nominal voltage	24Vdc	48Vdc	110 / 125Vdc
Nominal frequency	20 or 40 A	10 or 20A	4 or 8A
Output voltage ripple	< 100 mVrms	< 100 mVrms	< 100 mVrms
	< 200 mVpp	< 200 mVpp	< 300 mVpp
Charge current limitation	20A ± 5 %	10A ± 3 %	4A ± 5 %
Short-circuit current	< 20A	< 10A	< 5.5A
Efficiency	> 87 %		

### BATTERIES

Num. of elements Pb	12	24	54 or 60
Num. of elements Ni - Cd	18 ÷ 20	36 ÷ 40	86 or 98
Output voltage	18 - 30Vdc	36 - 60Vdc	83 - 144Vdc

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

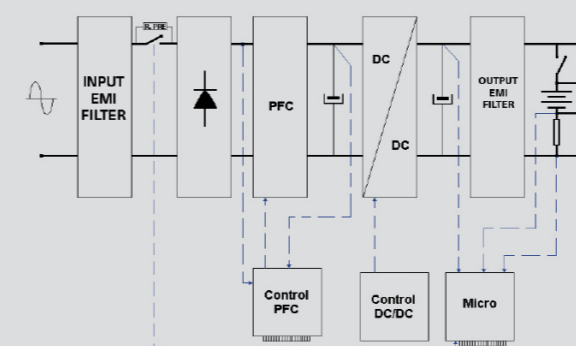
Protections	Battery circuit breaker protection, surge protection, input fuse protection, module overtemperature, short-circuit, current limitation, end of discharge limitation
Operation temperature range	0°C to 50°C
Storage temperature	-40°C - +80°C
Operating altitude	≤ 1000m without power loss
Relative humidity	< 95 % without condensation
Dimensions (HxWxD)	132 x 483 x 278mm

### STANDARDS

Low voltage european directive	CE, UNE - EN 50178 (1998)
EMC european directive	UNE - EN 61000-6-2 (2001), UNE - EN 61000-6-4 (2001)

*Special configurations on demand  
These specifications may change without notice*

### Internal architecture



### Complete system with batteries

