

ZGR MIT NG

range, thanks to the robustness of its design, ensures a high-reliability continuous current supply.

ZGR MIT NG range consists of battery chargers - rectifiers of conventional thyristor technology, controlled by microprocessor, in single-phase and three-phase product versions.

Zigor has combined the proven reliability of thyristor technology with the microelectronics functionalities, offering the ZGR MIT NG range at a maximum level in terms of performance and features.

The ZGR MIT NG range ensures the user a quality continuous supply. Zigor's wide experience in power electronics systems has allowed the design of a range of easily customizable equipment.



APPLICATIONS



TELECOM



INDUSTRY



DATA CENTERS



RAILWAY SECTOR



FACILITIES



ELECTRICITY SECTOR

CHARACTERISTICS

- » Galvanic isolation
- » Complete thyristor bridge
- » Automatic disconnection due to minimum battery voltage (LDV) *
- » Voltage dropping device *
- » Temperature and electrolyte level sensors *
- » Hall effect current sensors *
- » Customized output voltage filtering according to user specification *
- » Thermomagnetic input protection
- » Overvoltage protection by varistors at input and output
- » Distribution adaptable to user requirements

» Control and signalling

- Battery voltage and load measurements
- Charger, battery and load current measurements
- Comprehensive monitoring and signalling of charger status
- Local alarms with LCD and remote with relays
- Communications and remote management gateway with the possibility of implementing different protocols: MODBUS, SNMP, etc. *

» Battery management

- Charge Ni-Cd (open) y Pb (open and sealed)
- Battery and charger current limitation
- Charging modes:
 - » Ni-Cd and Pb open: flotation, fast charge, exceptional charge
 - » Pb sealed: flotation, fast charge, automatic fast charge and manual charge

* Optional

CONNECTIVITY AND MONITORING

Communication gateway integrated. It enables the communication via Web Server (http).

The Web Server provides full access to all information of ZRG MIT NG: status, measurements, configuration, alarms, control, network, equipment, etc.



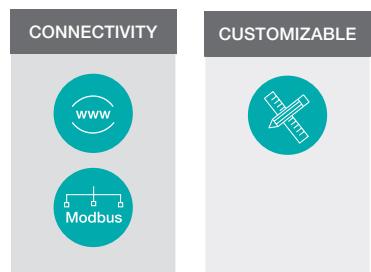
TECHNICAL SPECIFICATIONS

Model	ZGR MIT NG 1	ZGR MIT NG 3
INPUT ELECTRICAL CHARACTERISTICS		
Nominal voltage ⁽¹⁾	230V +10-15 %* (Single-phase)	400V +10-15 %* (Three-phase)
Frequency	50/60Hz ± 5%	
Power factor	0,7~0,9 (on request)	
OUTPUT INPUT ELECTRICAL CHARACTERISTICS		
Nominal voltage	12/24/48/110/125/220V	
Ripple voltage with batteries	< 1%	
Ripple voltage without batteries	< 2%	
Ripple current in batteries ⁽¹⁾	≤ 5%	
Voltage stability ⁽¹⁾	± 1/2 % (with/without battery)	
Dynamic regulation	< 2 % (10–90 % of charge)	
Charger current limitation ⁽¹⁾	100 % (up to 120 % optional)	
Battery charge current limitation	Configurable	
Transfer time	< 300ms	
COMMUNICATIONS		
Monitoring	Webserver TCP/IP, control panel	
Communications	ModBus RS485	
OTHERS		
Active parallel	Optional (up to 2 units)	
Dry contacts	4 (optional)	
Protections	Overvoltage, over-temperature, current limitation, short-circuit, input/output high/low voltage	
Cooling ⁽¹⁾	Natural convection	
Working temperature	0 to 45 °C (50 °C on demand)	
Protection degree	IP 20 (on request up to IP54)	
Noise level	< 63 dBA	
Operating altitude	< 1000m without power loss (up to 4500 m on demand)	
Relative humidity	0-95 % without condensation (up to 100% on demand)	
STANDARDS		
Marks	CE	
General directives	EN 50178 (1998), EN 61000-6-4 (2001), EN 61000-6-2(2001), EN 61000-3-2, EN 61000-3-3, IEC 60146-1-1	

⁽¹⁾Special configurations and other powers on request.
*These specifications may change without notice.

ZGR MIT NG STANDARD RANGE

Output voltage	Model	Current (A)								
		5	7.5	10	15	25	35	50	75	100
12V	MIT NG 1									
	MIT NG 3									
24V	MIT NG 1									
	MIT NG 3									
48V	MIT NG 1									
	MIT NG 3									
110-125V	MIT NG 1									
	MIT NG 3									
220V	MIT NG 1									
	MIT NG 3									



ZGR MIT NG HIGH RELIABILITY CHARGER - RECTIFIER