

ZGR TPS 120/200 NG

COMPACT SWITCHING CHARGER - RECTIFIER SMART GRID

ZGR TPS 120/200 NG have compact design in high frequency technology

ZGR TPS 120/200 NG equipments are 48 V battery rectifiers-chargers, capable of managing lead or litium batteries of up to 18 Ah of capacity for industrial applications, remote controls, remote control for transformer centres and applications a power supply secure tele-controlled in needed.

The total powers that these equipments can supply are 120 W and 200 W respectively. They can also supply (without battery) 10 seconds lasting peaks of 180 W and 400 W, depending on the model. The galvanic isolation between input and remaining circuits is 1 0kV. Unlike other equipments, ZGR TPS 120/200 NG range includes a system to test the state of health of the battery. This battery test can be done automatically or manually from outside.

ZGR TPS 120/200 NG has an Ethernet connection through which locally or remotely, it can be monitorized, make changes over the settings, even update the equipments firmware. It also supports SNMP to incorporate in the supervision systems.





Applications







Characteristics

- Compact design
- High efficiency
- High frequency switching
- Easy installation and maintenance
- Battery management
- Automatic and periodic battery test
- Autonomous Energy Management
- Communication with battery BMS (only litium version)

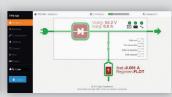
- Control and signalling
- Integrated communications with web services or SNMP for configuration and reading of equipment measurements
- Web interface for displaying variables and status, setting parameters and alarms, viewing event log, sending orders and updating firmware remotely
- Dry contact alarms

Connectivity and Monitoring

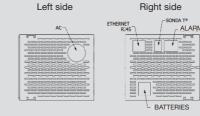
Communication gateway integrated: It enables the communication via Web Server (http). It includes advanced authentication (LDAP), parameterization, (XML) and time synchronization (NTP) features.

The Web Server allows the user to access the following data: status, measurements, configuration, alarms, control, network, equipment, etc.





TECHNICAL SPECIFICATIONS		
Model Model	ZGR TPS 120 NG	ZGR TPS 200 NG
AC INPUT ELECTRICAL CHARACTERISTICS	24.1.1.0.120.114	20.1 11 0 200 110
Power supply voltage	230 Vac -20% /+15% (1)	
Nominal frequency	50 – 60 Hz	
Power factor	> 0.6	
OUTPUT ELECTRICAL CHARACTERISTICS		
Output voltage / Battery in fast charge mode (lead version)	59V ± 0.5 %	Configurable temperature
Output voltage/ Battery in flotation mode (lead version)	54.24V ± 0.5%	compensation
Output voltage (litium version)	55.6V	
Voltage range	39 - 60 V	
Ripple	< 50 mVpp	
Maximum total permanent current	3A	5.2 A
Maximum current during 10 mins	4.6A	10.3 A
Permanent total power	120W	200 W
Total power during 10 mins	180W	400 W
Efficiency	> 75 %	
Battery charge current limitation (2)	0.25 A	1.3 A
COMMUNICATIONS		
Monitoring	Web interface	
Communications	Ethernet, SNMP, MODBUS TCP	
PROTECTIONS		
	Temperature compensation (configurable), electronic limitation of the chargin	
Battery	current, protection against deep discharge of the battery by means of a relay	
	in series	
AC input	Overcurrent protection by input fuse	
DC output	Varistor surge protection, electronic limitation of the charger current	
Dielectric rigidity Input - Other circuits	10 kVac 50 Hz 1 min	
Dielectric rigidity Ground - Output	2 kVac 50 Hz 1 min	
MECHANICAL AND ENVIRONMENTAL CHARACTE	ERISTICS	
Cooling	Natural convection	
Range ambient temperature	-10°C ~ +60°C	
Degree of environmental protection	IP20	
Operating altitude	< 1000 m without power loss	
Relative humidity	5 to 90 % without condensation	
Dimensions (W x D x H)	250 x 115 x 130 mm (rear fixing 280 x 115)	
Approx. Weight	5kg	
STANDARDS		
Marks	CE	
General directives	2006/95/CE (UNE-EN 61000-6-2 UNE-EN 61000-6-4) 2006/95/CE (EN 50178)	
denotal directives	2000/00/0E (CIVE-EIV 01000-0-2 OIVE-EIV 01000-0-4) 2000/90/0E (EIV 00170)	



(2) Parameterizable according to the characteristics of the battery up to the maximum current of the equipment These specifications may change without notice

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