

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 lithium 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 OkV. 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



TELECOM



INDUSTRY



DATA
CENTERS



RAILWAY
SECTOR



FACILITIES



ELECTRICITY
SECTOR

CHARACTERISTICS

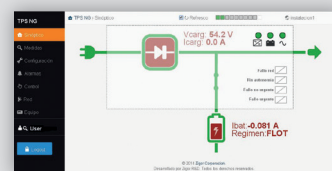
- » Compact design
- » High efficiency
- » High frequency switching
- » Easy installation and maintenance
- » Battery management
 - Automatic and periodic battery test
 - Autonomous Energy Management
 - Communication with battery BMS (only lithium version)
- » Control and signalling
 - Integrated communications 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
 - LED signalling on the front

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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.

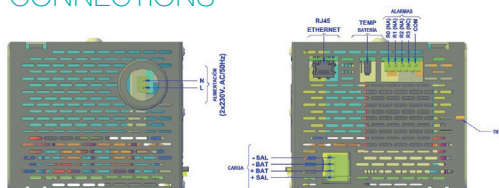


| TECHNICAL SPECIFICATIONS | | |
|---|--|---------------------------------------|
| Model | ZGR TPS 120 NG | ZGR TPS 200 NG |
| AC INPUT ELECTRICAL CHARACTERISTICS | | |
| Power supply voltage | 230 Vac -20% /+15% ⁽¹⁾ | |
| Nominal frequency | 50 – 60Hz | |
| Power factor | > 0,6 | |
| OUTPUT ELECTRICAL CHARACTERISTICS | | |
| Output voltage / Battery in fast charge mode (lead version) | 59V ± 0,5 % | Configurable temperature compensation |
| Output voltage/ Battery in flotation mode (lead version) | 54,24V ± 0,5 % | |
| Output voltage (lithium version) | 55,6V | |
| Voltage range | 39 – 60V | |
| Ripple | < 50mVpp | |
| Maximum total permanent current | 3A | 5,2A |
| Maximum current during 10 mins | 4,6A | 10,3A |
| Permanent total power | 120W | 200W |
| Total power during 10 mins | 180W | 400W |
| Efficiency | > 75 % | |
| Battery charge current limitation ⁽²⁾ | 0,25 A | 1,3A |
| COMMUNICATIONS | | |
| Monitoring | Web interface | |
| Communications | Ethernet, SNMP | |
| PROTECTIONS | | |
| Battery | Temperature compensation (configurable), electronic limitation of the charging 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 | 10kVAC 50Hz 1 min | |
| Dielectric rigidity Ground - Output | 2kVAC 50Hz 1 min | |
| MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS | | |
| Cooling | Natural convection | |
| Range ambient temperature | -10°C to 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 | 5 kg | |
| STANDARDS | | |
| Marks | CE | |
| General directives | 2006/95/CE (UNE-EN 61000-6-2 UNE-EN 61000-6-4)2006/95/CE (EN 50178) | |

DIMENSIONS



CONNECTIONS



CONNECTIVITY

- www
- Modbus

⁽¹⁾ Optional other input voltages.
⁽²⁾ Parameterizable according to the characteristics of the battery up to the maximum current of the equipment.
 * These specifications may change without notice.