

ZGR TPS 150 NG

COMPACT SWITCHING CHARGER – RECTIFIER
SMART GRID

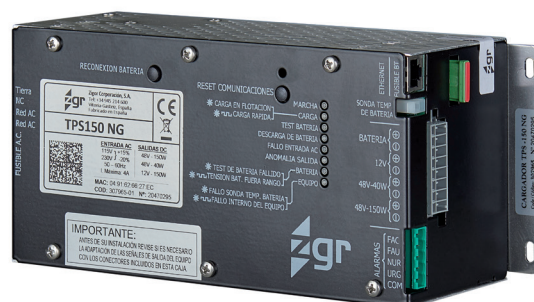


ZGR TPS 150 NG has compact design in high frequency technology.

ZGR TPS 150 NG equipments are 12 / 48 V battery rectifiers-chargers, capable of managing lead batteries of up to 75 Ah of capacity for industrial applications, remote controls, remote control for transformer centres and applications a power supply secure tele-controlled in needed.

ZGR TPS 150 NG can supply a total power of 150W. However, they can also supply (without battery) 10 seconds lasting peaks of 275 W. Unlike other equipments, ZGR TPS 150 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 150 NG has an Ethernet connection through which locally or remotely, it can be monitorized, make changes over the settings, even update the equipments firmware.



APPLICATIONS



TELECOM



INDUSTRY



DATA CENTERS



RAILWAY SECTOR



FACILITIES



ELECTRICITY SECTOR

CHARACTERISTICS

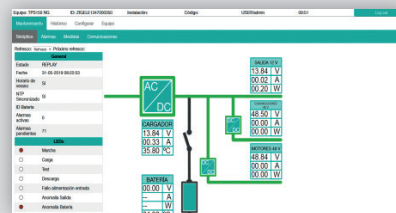
- » Compact design
- » High efficiency
- » High frequency switching
- » Easy maintenance
- » Wall mounting
- » Battery management:
 - Automatic and periodic battery test
 - Autonomous Energy Management
 - Forced output switch off
- » Control and signalling
 - Integrated communications with web services 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 150 NG
AC INPUT ELECTRICAL CHARACTERISTICS	
Power supply voltage	115 / 230 Vac -20 % / +15 % ⁽¹⁾
Nominal frequency	49,5 – 50,5 Hz
Power factor	> 0,6
OUTPUT ELECTRICAL CHARACTERISTICS	
Output 1 nominal voltage	12 V
Output 2 and 3 nominal voltage	48 V
Maximum total permanent current - Output 1	15, 7 A
Maximum current during 10 mins - Output 1	29 A
Maximum total permanent current - Output 2	0,83 A
Maximum total permanent current - Output 3	3,2 A
Maximum current during 10 mins - Output 3	5,7 A
Voltage regulation- Output 1	9,6 – 15 V
Voltage regulation - Output 2 y 3	±1 V
Ripple - Output 1	< 50 mVpp
Ripple - Output 2 y 3	< 100 mVpp
Permanent total power	150 W
Total power during 10 mins	275 W
Efficiency	> 75 %
Battery charge current limitation ⁽²⁾	15,7 A
COMMUNICATIONS	
Monitoring	Web interface, Web Services
Communications	Ethernet
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	input fuse
DC output	Varistor surge protection, electronic limitation of the charger current
Galvanic isolation Input - Other circuits	2 kV 50 Hz 1 mins
Dielectric rigidity Ground - Output	2 kV 50 Hz 1 mins
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS	
Cooling	-25°C to 60°C
Operation temperature range	Natural convection
Degree of environmental protection	IP 20
Operating altitude	< 1000m without power loss
Relative humidity	5 to 90 % without condensation
Dimensions (W x D x H)	(280 / 260) x 115 x 90 mm
Approx. Weight	1,31 kg
STANDARDS	
Marks	CE
General directives	2006/95/CE (UNE-EN 61000-6-2 / UNE-EN 61000-6-4) 2006/95/CE (EN 50178)

⁽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.