

ZGR TPS 120

COMPACT SWITCHING
CHARGER – RECTIFIER

Thanks to the switching technology, **ZGR TPS 120** are high performance compact equipments.

The range of ZGR TPS 120 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 confined spaces.

ZGR TPS 120 units integrate all the functions of a high-performance charger in the same module, such as load management, battery disconnecter, remote alarms, protections, etc.

The ZGR TPS 120 are offered as independent modules or integrated into complete systems, which are adapted to the needs of the customer and available in voltages of 48 Vdc, 24 Vdc or 12 Vdc.

STANDARD



CABINET



APPLICATIONS



TELECOM



INDUSTRY



DATA
CENTERS



RAILWAY
SECTOR



FACILITIES



ELECTRICITY
SECTOR

CHARACTERISTICS

- » Cost-effective and reliable
- » Connection strip built into the unit itself
- » Natural convection
- » Easy installation and maintenance of batteries
- » Switching technology
- » Wide range of voltage from 12 to 48V

* *Optional*

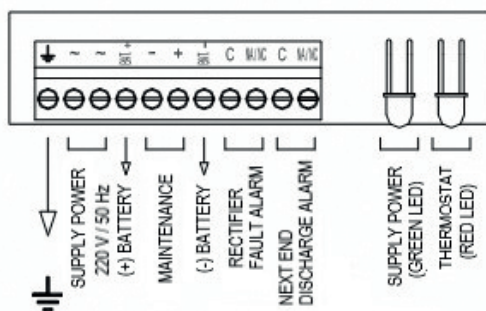
- » Control and signalling
 - Battery minimum voltage
 - Voltmeter and ammeter *
 - Charger fault
 - Dry contacts for remote signalling
- » Battery management
 - Ni-Cd or Lead-acid batteries
 - Battery and load protection fuses
 - Current limitation
 - Low Voltage Disconnection (LVD)

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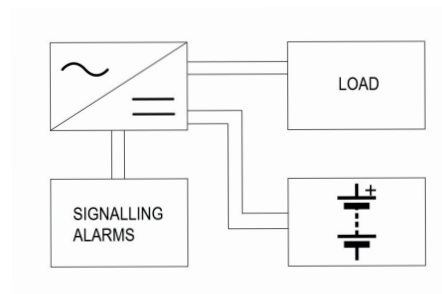
TECHNICAL SPECIFICATIONS					
Model	ZGR TPS 120				
INPUT ELECTRICAL CHARACTERISTICS					
Nominal voltage <i>Customized configurations under demand</i>	220 V ± 10 %				
Nominal frequency	50 Hz ± 5 %				
OUTPUT ELECTRICAL CHARACTERISTICS					
Presence of mains and charged battery	TPS 120	Flotation voltage (Pb)	Maximum voltage (Ni-Cd)	Units (Ni-Cd)	
	12 V / 10 A	13,65 V ± 1 %	-	-	
	24 V / 5 A	27,3 V ± 1 %	27 V	18	
Mains absence	48 V / 2,5 A	54,6 V ± 1 %	55,5 V	37	
	Battery	Battery capacity in Ah (20 h at 1,75 V/cell)	Autonomy at nominal current (8-10 A)	Maximum recharging current of the battery	
		Pb 48 V 2,5 A	7	2h.	0,7 A
			12	3 h. 45 m.	1,2 A
	18		6h.	1,7 A	
	Pb 24 V 5 A	12	1 h. 30 m.	1,2 A	
		18	2 h. 40 m.	1,7 A	
		26	4 h. 15 m.	2,7 A	
	Pb 12 V 10 A	18	1 h.	1,7 A	
		26	1 h. 45 m.	2,5 A	
		33	3 h.	3,7 A	
		Ni-Cd 48 V 2,5 A	4	1 h. 30 m.	0,13 A
7			2 h. 30 m.	0,23 A	
14			5 h.	0,46 A	
Ni-Cd 24 V 5 A	4	45 m.	0,13 A		
	7	1 h. 15 m.	0,23 A		
	14	2 h. 30 m.	0,46 A		
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS					
Operation temperature range	0°C ÷ 50°C				
Storage temperature	-40°C ÷ 80°C				
Cooling	Natural convection				
Operating altitude	≤ 1000 m				
Relative humidity	5 - 95 % (without condensation)				
Dimensions (HxWxD)	100 x 122 x 285 mm				
Approx. Weight	2,2 kg				
STANDARDS					
Low voltage european directive	73/23/CEE-93/68/CEE				
EMC european directive	89/336/CEE-93/68/CEE				

* These specifications may change without notice.

CONNECTIONS



BLOCK DIAGRAM



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