

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



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 48 V
- 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)

* Optional

TECHNICAL SPECIFICATIONS

Model ZGR TPS 120

INPUT ELECTRICAL CHARACTERISTICS

Nominal voltage 220 V ± 10 %
Customized configurations under demand
 Nominal frequency 50 Hz ± 5 %

OUTPUT ELECTRICAL CHARACTERISTICS

	TPS 120	Flotation voltage (Pb)	Flotation voltage (Ni-Cd)	Elements (Pb) / (Ni-Cd)			
Presence of mains and charged battery	12 V / 10A	13.65 V ± 1 %	-	6 / -			
	24 V / 5A	27.3 V ± 1 %	27 V ± 1 %	12/18			
	48 V / 2,5A	54.6 V ± 1 %	55.5 V ± 1 %	24/37			
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 48V 2.5A	7	2h.	0.7A				
	12	3h. 45 m.	1.2A				
	18	6h.	1.7A				
Pb 24V 5A	12	1 h. 30m.	1.2A				
	18	2h.40m.	1.7A				
	26	4h.15m.	2.7A				
Mains absence	18	1 h.	1.7A				
				Pb 12V 10A	26	1 h. 45m.	2.5A
					33	3h.	3.7A
Ni-Cd 48 V 2.5A	4	1 h. 30 m.	0.13A				
	7	2 h. 30 m.	0.23A				
	14	5h.	0.46A				
Ni-Cd 24 V 5A	4	45 m.	0.13A				
	7	1 h. 15m.	0.23A				
	14	2 h. 30m.	0.46A				

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

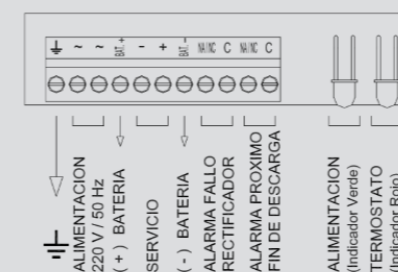
Operation temperature range 0°C ~ +50°C
 Storage temperature -40°C ~ +80°C
 Cooling Natural convection
 Operating altitude ≤ 1000m
 Relative humidity 5 ~ 95 % (without condensation)
 Dimensions (HxWxD) 100 x 122 x 285 mm
 Approx. Weight 2.2 kg

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



Internal architecture

