

TPS 120 RANGE

*Rectifier battery charger
for industrial applications*



TPS120 chargers range based on high frequency switching technology, benefits takes advantage of this typology, getting a compact and friendly user equipments range that can be installed in reduced spaces.

TPS120 equipments include in the same module all the functions of a high features charger, such as load management, battery disconnection, remote alarms, protections and so on.

TPS 120 can be offered as an independent module or built in a complete systems.

TECHNICAL DESCRIPTION

Zigor has developed the **TPS 120 range**, a rectifier-charger with commutation technology for providing power: **48Vdc, 24Vdc or 12 Vdc** (depending on model) with mains on/off.

Signaling & control:

Charger failure
Minimum battery voltage
Voltmeter and ammeter *
Dry contact relay for remote signaling

Battery management:

Sealed Pb and Nicd batteries
Load and battery protection fuses
Current limitation
LVD (low voltage disconnecter) limitation

GENERAL TECHNICAL FEATURES

- Economical and reliable
- Battery disconnecter integrated
- Remote Alarms
- Terminal blocks included in the charger
- Air cooling
- Easy instalation and battery maintenance
- Ni-Cd or Pb sealed battery management;
battery protection, current limitation & low battery voltage disconnecter
- Commutation technology

ADVANTAGES

- Compact size
- High efficiency
- High frequency commutation
- Easy battery maintenance
- LED signaling
- Batteries: Pb & NiCd
- Dry contact relay
- Front connections



APPLICATIONS

- Telecommunications
- Utilities
- Industrial

*Optional

Voltages (V)	Currents (A)		
	2,5	5	10
12			
24			
48			

* Consult for customized product

TECHNICAL SPECIFICATIONS

Voltages	TPS 120		
	12 V	24 V	48 V
Electrical input features			
Input voltage	220 Vac ± 10%		
Frequency range	40Hz ÷ 60Hz		
Efficiency	<85%		
Currents *	2,5/5/10 A		
Electrical output features *			
	12 V 10 A	24 V 5 A	48V 2,5 A
V floating Pb	13,65 V	27,3 V	54,6 V
V max. Ni-Cd	13,65 V	27 V	55,5 V
Constant total power	120 W		
Efficiency	70%		
Limitation I battery charge	1,2 A		
Limitation I charger	10 A		
Norms			
Low voltage European directive	UNE-EN 50178 (1998)		
Electromagnetic compatibility European directive	EN 50081-1 (93), EN 50082-2(1995), IEC 1000-4-2 (1995), ENV 50204 (1995), IEC 1000-4-4 (1995), ENV 50141 (1993) IEC 1000-4-5 (1995), UNE-EN 61000-3-2, UNE 20177 (1985)		
Mechanical features			
Operating temperature	0°C ÷ 50°C		
Storage temperature	-40°C ÷ 80°C		
High x width x depth (mm)	100 x 122 x 285		
Altitude	≤ 1000m		
Relative humidity	5% a 95% (without condensing)		
Air cooling	Natural convection		
Weight	2,2 Kg		

* With mains on and charged battery

* Consult for costumized products

OPERATING DIAGRAM

