

## THYRISTOR RECTIFIER AC/DC

series SBN T- AC/DC

NOMINAL VOLTAGE

24 Vdc, 48 Vdc, 110 Vdc, 125 Vdc, 220 Vdc

Thyristor Rectifiers AC/DC developed by ALBAT is especially qualified for use as battery backed up power supplies.



ALBAT'S Thyristor Rectifier AC/DC with its robust design represents a perfect solution for a wide range application in:

- Power Plants,
- Substations,
- Oil/Gas pipeline systems,
- Railways,
- Offshore projects, ...

### MAIN FEATURES:

- Microprocessor controlled Thyristor Technology
- Built in output transformer topology
- Advanced technology for phase control
- Suitable for all common voltages: 24V, 48V, 108 to 110V, 216 to 220 Vdc
- User Friendly Control Panel
- Digital controller
- External battery

### AVAILABILITY:

- Galvanically isolated
- Ability to operate as voltage or current source
- Temperature controlled charging
- Battery test during operation
- Local and remote control
- LVDB system protection battery
- Over voltage protection for system

### ECONOMIC EFFICIENCY:

- Very low voltage ripple and extended battery life
- High efficiency and low operation cost
- Suitable for lead and NiCad batteries
- All-inclusive system

ALBAT provide completely Design by your technical request, Production, Assembly and Service in warranty and after-warranty period.

The production process is in accordance with the standards ISO 9001:2008 and ISO 14001:2004. All products are in compliance with IEC and EN standards.

## THYRISTOR RECTIFIER AC/DC

### Technical specification

DC OUTPUT					
Nominal voltage Vdc	24	48	110	125	220
Voltage range Vdc	70% to 120% for float charge 80% to 120% for boost charge 80% to 120% for equalizing charge				
Output current A	30 / 40 / 60 / 100 / 200 / 400				
Maximum current	110% of nominal				
Current level %	0% to 100% for charging battery				
Voltage level %	<1% (10% to 100% load)				
Voltage ripple %	<1% (with or without battery)				
Efficiency %	80		90		
AC INPUT					
Nominal voltage Vac	3x400Vac				
Voltage range %	±15%				
Frequency Hz	50				
Frequency range Hz	47 do 63				
PERFORMANCE					
Signalisation	Input voltage failure; Low battery voltage; Common failure; (Dry contacts)				
LCD display	Voltage rectifier; Current rectifier; Voltage load; Current battery;				
LED	Rectifier in function; Working from battery; Alarm; Main alarm; Floating; Charging; Battery test; Network fail; High DC voltage; Discharge battery; Current rectifier limit; Current battery limit; Negative battery test; Failure contactor; Ground fail;				
ENVIRONMENT					
Standard temperature °C	0 to 50°C				
Humidity %	0 to 95 non-condensing				
CONTROLLER					
Features	LCD display, mounted on the door of the system LED unit, signalisation mounted on the door of the system				
MECHANICAL					
Cabinet dimension	600 x 600 x 2000 mm + 100 mm / or different per technical request				
Cabinet protection	IP 21 ili IP 54 ili IP 65 (standard or AIR-conditioned or Seismic resistance) / or different per technical request				
Colour	RAL 7035 / or different per technical request				
Installation	Indoor / Outdoor				
AGENCY COMPLIANCE					
Safety	IEC 60950; IEC 439; IEC 146;				
EMC	EN 62040-1; EN 62040-2; EN 62040-3;				

## THYRISTOR RECTIFIER AC/DC

FUNCTIONAL DIAGRAM

