



The BDS is a heavy duty, single phase thyristor-controlled rectifier, specifically designed for the harshest operating environment in industrial applications, such as oil and gas, petrochemical, power generation, power distribution and transmission plants for operation throughout the world.

The modular and flexible system concept together with a high number of options enables a fully customized solution that allows to meet any requirement - irrespective how specific it may be.

Single Phase Battery Charger / Rectifier BDS Series | 5 – 80A

Key features:

- Based on well proven technology platform
- Design life of 25 – 30 years
- Robust analogue regulator with digital (μ P technology) set-point management and monitoring
- Clear structured front panel
- State of the art communication software
- Fully monitored system platform
- Rugged and heavy industrial design
- Intelligent battery management

Operational benefits:

- High reliability
- Long durability
- High availability, save control logic if μ P fails (analogue regulator will still run system in safe mode)
- Easy operation and control
- Easy access and intuitive communication
- Low operational costs
- Low maintenance costs
- Extremely high degree of availability

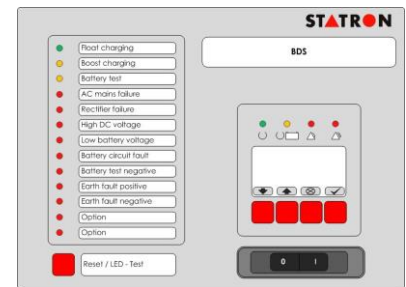
Single Phase Battery Charger / Rectifier

BDS | Technical Specification

Easy Operation & Control

The front panel of the BDS facilitates a comprehensive and flexible human machine interface (HMI). An easy and intuitive operation and control of the system is achieved through:

- Comprehensive 4-line LCD display
- Multi-language support
- 13 programmable alarms and indications
- 4 LEDs integrated in the display above the push buttons are linked to fixed functions (operation, battery operation, non-urgent alarm and urgent alarm)
- Intelligent real time event recorder for 200 events
- Continuous battery availability (health) check
- Multi-level user management



System ratings	24V	48V	60V	110V	220V
	BDS 24-20	BDS 48-10	BDS 60-10	BDS 110-5	BDS 220-5
	BDS 24-40	BDS 48-20	BDS 60-20	BDS 110-10	-
	BDS 24-60	BDS 48-30	BDS 60-30	BDS 110-16	-
	BDS 24-80	BDS 48-40	BDS 60-40	-	-
	Other rating available on special requests				
Rectifier input					
Rectifier AC input voltage	1x230 V ±10% (1x220 V, 1x240 V, others on request)				
Rectifier input frequency	50 Hz / 60 Hz ±5%				
Rectifier input power factor	Typical > 0.8 ind.				
Rectifier DC output					
Nominal voltage	24 / 48 / 60 / 110 / 220 VDC				
DC voltage tolerance	±1% (static)				
DC ripple voltage	< 5% rms without battery connected (lower on request)				
Charging characteristics	IU / IUoU acc.DIN 41773				
General Data					
Efficiency	85% -94% depending on model and DC load				
Noise level	55 dB(A) – 65 dB(A)				
Cooling	natural convection (special models with fan cooling)				
Operating temperature	-10 to +40 deg C (up to 55 deg C with derating)				
Storage temperature	-20 to +70 deg C				
Maximum altitude without derating	1000 masl (up to 4000 masl with derating)				
Allowable relative humidity	<95% (non condensing)				
Protection degree	IP20 (up to IP54)				
Colour / Paint	RAL 7035 (other colour optional)				
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance & Test	IEC/EN 60146-1-1 / IEC/EN 62040-5-3				
Quality / Environment	ISO 9001:2008 / ISO 14001:2004				
Dimension of cabinet	Width x Depth x Height*: 600 x 800 x 1900 (height 2100, 2300 optional)				

* dimensions for IP20 and basic configuration

Further data available on request

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