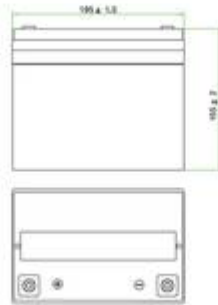




# BTX 12-33LS

12V-33Ah · High Rate  
750W @ 15 minutes



### Electrical Specifications

Nominal Voltage	12 V	
Nominal Capacity (10hr 1,8V/C at 25°C)	32,9 Ah	
Capacity at 25°C to 1,8V	20 hour rate	34,3 Ah
	10 hour rate	32,9 Ah
	8 hour rate	31,9 Ah
	3 hour rate	27,7 Ah
	1 hour rate	22,9 Ah
Self discharge @ 20°C	per month	2 - 2,5 %
Internal Resistance	7 mΩ	
Short Circuit Current	>1000 A	
Charge Voltage @25°C	Standby (-3mV/°C)	2,29 V/Cell
	Cyclic I <sub>max</sub> : 9,9A (-3mV/°C)	2,40 V/Cell

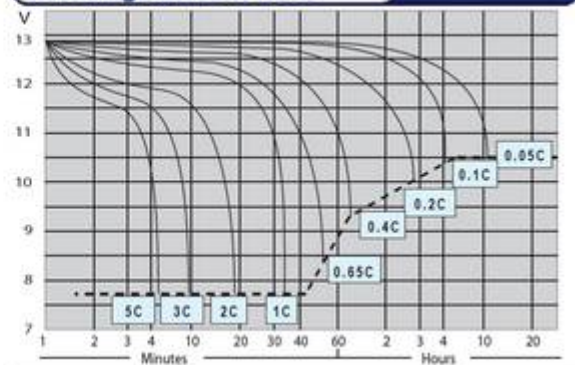
### Innovative Features

- Design life up to 12 years (High Performance)
- BTX-LS batteries are maintenance free
- High Discharge Rate
- Lead-Calcium casted grids
- AGM separators for improved electrolyte distribution
- BTX-LS Capacity range: 17-200Ah
- Designed in conformance with the DIN EN 60896-2:1997 standard
- Extremely low gassing
- Reduced self discharge
- 100% recyclable
- No limitations for transport via road, rail, boat or air

### Other Specifications

Design Life	up to 12	Years
Dimensions	LxWxH	195*130*155 mm
	Total height	168 mm
Operating Temperature	-20 to +50	°C
Separator	Absorbant Glass Mat	
Grid alloy	Calcium / Tin lead alloy	
Case and cover	ABS	
Electrolyte	Sulphuric Acid	
Terminal	M6 insert.	
Optional terminal types	Cu/Lead Flag	
Torque setting	7 - 9	Nm
Weight	11,7	Kg

### Discharge Curve @ 20°C



### Constant Power Discharge - Watts per Cell at 20°C

V/Cell	5 min	10 min	15 min	30 min	45 min	1 hr	2 hr	5 hr	10 hr	20 hr
1,65 V	237	159	120	75,0	55,8	45,5	26,0	12,5	7,0	3,7
1,70 V	226	153	117	72,6	54,1	44,3	25,3	12,3	6,9	3,7
1,75 V	216	146	111	70,0	52,3	43,0	24,6	12,0	6,7	3,6
1,80 V	205	140	107	67,6	50,6	41,7	23,9	11,7	6,6	3,5



DERUNGS-ELECTRONIC GmbH, Eschlikonerstrasse 17, 9542 Münchwilen TG

Telefon +41 (0) 71 - 966 66 76 Fax +41 (0) 71 - 966 66 73 www.de-usv.ch info@de-usv.ch