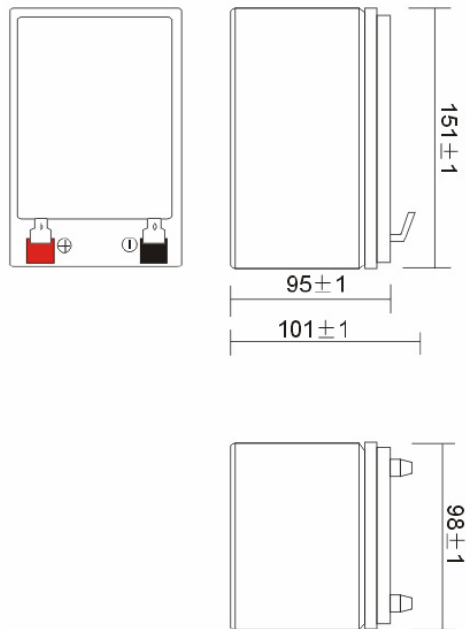


## TECHNICAL DATA

Nominal voltage $U_n$	12,0 V	
Nominal capacity ( $C_{20}$ @ 20°C)	12,0 Ah	
Technology - Separator	AGM	
Designed service life (years)	5-6	
Classification according to EUROBAT	Standard Commercial	
Dimensions	Length	151,0 mm
	Width	98,0 mm
	Height	95,0 mm
Weight	4,05 kg	
Terminals	Fast-on 250 (6,35 mm)	
Max. tightening torque	-	
Available capacity at 20°C at 1,75 V/ cell	20 h	12,00 Ah
	10 h	10,50 Ah
	5 h	9,40 Ah
	3 h	8,79 Ah
	1 h	8,05 Ah
Capacity $C_{20}$ in dependence on operating temperature	40°C	103 %
	20°C	100 %
	0°C	86 %
	-15°C	65 %
Range of operating temperatures	charging	-15°C + + 50°C
	discharging	-20°C + + 60°C
Internal resistance	18,0 mΩ	
Constant voltage charging 15-25°C	Buffer operation	2,25-2,30 V/cell
	Cyclic operation	2,35-2,40 V/cell
Temperature compensation	Buffer operation	± 3,0 mV/°C/cell
	Cyclic operation	± 5,0 mV/°C/cell
Max. charge current	3,00 A	
Self-discharge during storage at 20°C	Capacity after 1 month	97 %
	Capacity after 3 months	91 %
	Capacity after 6 months	83 %



## DISCHARGE CHARACTERISTICS

Cut-off voltage	Discharge time (minutes), watts / cell at 20°C												
	5	10	15	20	25	30	35	40	45	60	90	120	180
1,75 V/cell	69,95	54,67	41,83	34,65	29,37	25,44	22,59	20,44	18,94	15,28	10,66	8,22	5,66
1,70 V/cell	73,22	55,77	42,65	35,37	29,71	25,77	22,81	20,67	19,15	15,42	10,80	8,34	5,81
1,65 V/cell	76,23	56,56	43,40	35,77	30,11	26,00	23,01	20,87	19,32	15,58	10,86	8,39	5,83
1,60 V/cell	79,71	58,20	44,67	36,36	30,52	26,35	23,38	21,09	19,60	15,75	11,02	8,46	5,85
Cut-off voltage	Discharge time (minutes), Amps at 20°C												
	5	10	15	20	25	30	35	40	45	60	90	120	180
1,75 V/cell	38,62	30,05	22,86	18,77	15,80	13,68	12,06	10,89	10,05	8,05	5,58	4,29	2,93
1,70 V/cell	40,76	30,87	23,46	19,34	16,16	13,94	12,26	11,07	10,20	8,16	5,67	4,35	3,01
1,65 V/cell	42,68	31,37	23,94	19,61	16,44	14,10	12,40	11,19	10,33	8,25	5,72	4,39	3,02
1,60 V/cell	44,79	32,44	24,69	19,94	16,68	14,32	12,64	11,34	10,49	8,37	5,79	4,43	3,05

## OPERATION FEATURES

- Maintenance-free in respect of electrolyte checks and refilling
- Electrolyte absorbed into a spongy structure of glass fibre separators – technology AGM
- Safe operation ensured by the self-sealing system of safety valves
- Wide range of operating temperatures
- Sealed to exclude any electrolyte leakage
- Low internal resistance level and high charge current
- Perfect charging parameters
- Casing made of shock resistant slow burning ABS resin
- Low self-discharge level – less than 3% per month
- Compliant with BS6290 Pt 4, IEC 896-2, DIN 43534, EUROBAT, ISO 9001

## BASIC APPLICATIONS

- Uninterruptible power supplies (UPS)
- Telecommunication and power industry
- Alarm, fire protection and emergency lighting systems
- Electronic tills, vending machines, parking meters
- Cable TV, medical equipment
- Solar energy systems