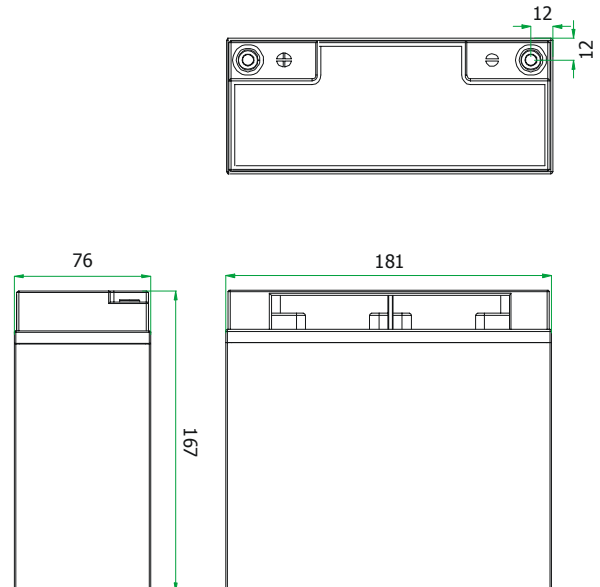


TECHNICAL DATA

Nominal voltage U_n	12 V	
Nominal capacity (C_{20} @ 20°C)	18 Ah	
Technology - Separator	AGM	
Designed service life (years)	10 - 12	
Classification according to EUROBAT	High Performance	
Dimensions	Length	181 mm
	Width	76 mm
	Height	167 mm
Weight	6,3 Kg	
Terminals	Thread M 5	
Max. tightening torque	5-6 Nm	
Available capacity at 20°C at 1,75 V/cell	20 h	18,0 Ah
	10 h	15,8 Ah
	5 h	14,8 Ah
	3 h	13,5 Ah
	1 h	11,7 Ah
Capacity C_{20} in dependence on operating temperature	40°C	102 %
	20°C	100 %
	0°C	85 %
	-15°C	65 %
Range of operating temperatures	charging	-15°C ÷ + 50°C
	discharging	-20°C ÷ + 60°C
Internal resistance	15,0 mΩ	
Short circuit current (20°C)	732 A	
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	4,5 A	
Self-discharge during storage at 20°C	Capacity after 1 month	98 %
	Capacity after 3 months	94 %
	Capacity after 6 months	86 %



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
1,85 V/cell	87,92	70,62	56,92	47,95	41,47	36,50	32,40	29,16	26,95	21,36	15,35	11,90	8,50
1,80 V/cell	97,61	74,58	59,94	50,54	42,88	37,37	32,94	29,59	27,28	21,69	15,66	12,10	8,60
1,75 V/cell	103,02	79,86	60,91	51,84	43,96	37,91	33,59	30,13	27,72	22,13	15,76	12,10	8,69
1,70 V/cell	108,12	82,28	62,75	52,49	44,39	38,34	34,02	30,56	28,38	22,67	16,07	12,40	8,92
1,65 V/cell	109,14	83,27	64,37	52,92	44,82	38,88	34,45	31,00	28,82	23,11	16,27	12,60	8,99
1,60 V/cell	110,16	83,60	64,80	54,00	45,36	39,42	35,10	31,54	29,37	23,54	16,58	12,70	9,04

Cut-off voltage	Discharge time (minutes), Amps at 20°C												
	5	10	15	20	25	30	35	40	45	60	90	120	180
1,85 V/cell	47,23	37,84	30,35	25,49	22,03	19,33	17,06	15,34	14,08	11,12	7,95	6,09	4,36
1,80 V/cell	53,24	40,59	32,40	27,22	23,00	19,98	17,50	15,66	14,41	11,45	8,16	6,26	4,43
1,75 V/cell	57,02	43,89	33,26	28,08	23,65	20,30	17,93	15,98	14,74	11,66	8,27	6,32	4,49
1,70 V/cell	60,08	45,54	34,56	28,62	24,08	20,74	18,25	16,31	15,07	11,99	8,40	6,49	4,62
1,65 V/cell	61,20	46,20	35,53	29,05	24,41	21,06	18,58	16,63	15,40	12,21	8,58	6,59	4,63
1,60 V/cell	61,81	46,64	35,86	29,59	24,73	21,38	19,01	16,96	15,73	12,54	8,71	6,64	4,70

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
- Energy-efficient plates
- Fast charging
- 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
- FAA and IATA approved as safe in transport
- Manufacture compliant with ISO 9001