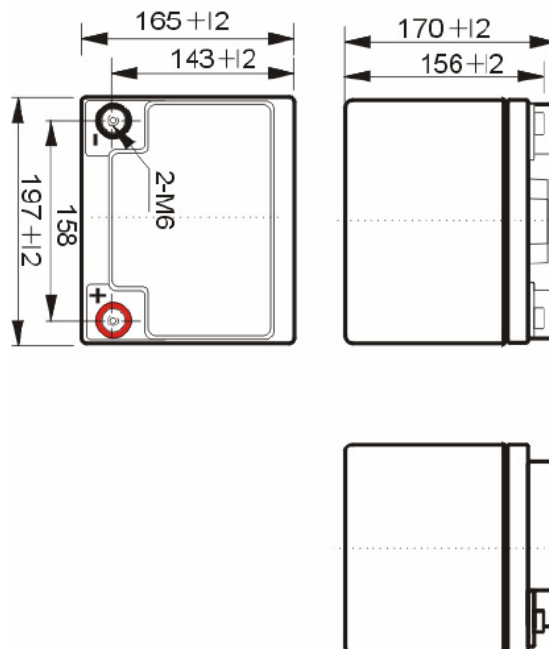


### TECHNICAL DATA

Nominal voltage $U_n$	12,0 V	
Nominal capacity ( $C_{20}$ @ 20°C)	40 Ah	
Technology - Separator	AGM	
Designed service life (years)	6-9	
Classification according to EUROBAT	General Purpose	
Dimensions	Length	197,0 mm
	Width	165,0 mm
	Height	170,0 mm
Weight	13,80 Kg	
Terminals	Thread M6	
Max. tightening torque	6-7 Nm	
Available capacity at 20°C at 1,75 V/ cell	20 h	40,0 Ah
	10 h	38,0 Ah
	5 h	32,5 Ah
	3 h	27,8 Ah
	1 h	25,5 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	8,0 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	10,0 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	221,50	171,42	131,14	108,63	92,99	80,57	71,52	64,74	59,97	48,38	33,77	26,03	17,93
1,70 V/cell	231,86	174,88	133,71	110,91	94,07	81,61	72,23	65,46	60,63	48,84	34,20	26,41	18,39
1,65 V/cell	241,41	177,36	136,08	112,15	95,36	82,32	72,87	66,10	61,19	49,35	34,39	26,58	18,47
1,60 V/cell	252,41	182,50	140,07	114,00	96,64	83,46	74,05	66,80	62,07	49,88	34,88	26,80	18,54
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	122,28	94,23	71,67	58,84	50,02	43,32	38,18	34,48	31,82	25,49	17,68	13,58	9,27
1,70 V/cell	129,07	96,81	73,56	60,63	51,19	44,13	38,81	35,06	32,29	25,83	17,97	13,78	9,52
1,65 V/cell	135,15	98,36	75,06	61,48	52,07	44,65	39,28	35,43	32,71	26,13	18,11	13,89	9,58
1,60 V/cell	141,84	101,73	77,41	62,52	52,83	45,33	40,03	35,91	33,23	26,49	18,35	14,02	9,65

### 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