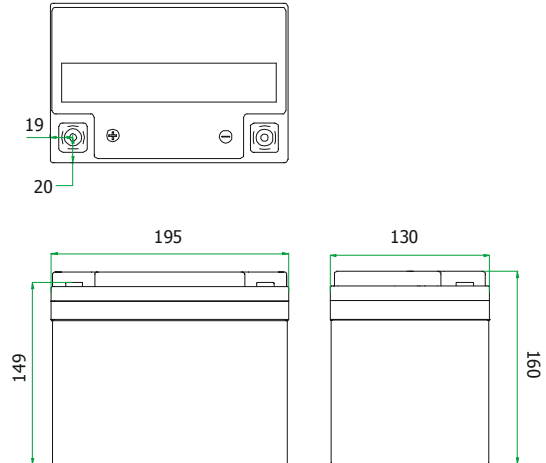


## TECHNICAL DATA

Nominal voltage $U_n$	12 V	
Nominal capacity ( $C_{20}$ @ 20°C)	33 Ah	
Technology - Separator	AGM	
Designed service life (years)	10 - 12	
Classification according to EUROBAT	High Performance	
Dimensions	Length	195 mm
	Width	130 mm
	Height	160 mm
Weight	10,9 kg	
Terminals	Thread M 6	
Max. tightening torque	6-7 Nm	
Available capacity at 20°C at 1,75 V/cell	20 h	33,3 Ah
	10 h	29,1 Ah
	5 h	25,7 Ah
	3 h	23,0 Ah
	1 h	22,1 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	8,5 mΩ	
Short circuit current (20°C)	1100 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	8,33 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	178,00	136,00	109,14	87,90	76,00	67,40	59,80	54,20	50,88	40,46	28,50	20,90	14,30
1,80 V/cell	197,00	146,00	112,20	92,50	78,60	68,90	61,70	55,20	52,02	41,60	29,02	21,30	14,70
1,75 V/cell	203,00	149,00	116,28	94,20	79,50	70,00	61,90	55,50	52,32	41,91	29,12	21,50	14,80
1,70 V/cell	206,00	151,00	117,30	96,20	81,00	71,20	62,50	56,30	52,63	42,22	29,43	21,70	15,10
1,65 V/cell	208,00	152,00	118,32	97,10	81,80	71,60	63,00	56,60	53,15	42,54	29,74	21,90	15,20
1,60 V/cell	215,00	155,00	120,36	98,00	82,70	72,50	63,70	57,20	53,66	42,74	29,95	22,00	15,30

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	95,80	72,80	58,24	46,70	40,30	35,60	31,50	28,50	26,68	21,11	14,77	10,80	7,33
1,80 V/cell	107,00	79,30	61,00	49,80	42,10	36,80	32,80	29,30	27,50	21,84	15,08	11,10	7,57
1,75 V/cell	112,00	81,90	63,65	51,10	42,90	37,60	33,10	29,60	27,71	22,05	15,29	11,20	7,66
1,70 V/cell	114,00	83,40	64,67	52,50	44,00	38,50	33,60	30,10	28,02	22,36	15,39	11,30	7,84
1,65 V/cell	116,00	84,60	65,38	53,20	44,60	38,80	34,00	30,30	28,43	22,57	15,60	11,40	7,90
1,60 V/cell	121,00	86,40	66,50	53,80	45,10	39,30	34,40	30,70	28,63	22,78	15,81	11,50	7,95

## 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