

BAE 48V FRONT TERMINAL BATTERY

Technical Specification

1. Application

BAE 48 V - FRONT TERMINAL - BATTERIES are used for the power supply of all kind of telecom, intranet and internet systems.

2. Features

19" size: 120 Ah to 600 Ah with a depth of 400 mm.

23" size: 330 Ah to 1100 Ah with a depth of 650 mm.

Modular design: 4 moduls of 12 V or 6 moduls of 8 V form a 48V-battery.

Best EUROBAT class: long life, >12 years: Tubular plates, high tin alloy, GEL-technique, low acid density.

Front terminal access to all poles.

100 % sealing at the poles and the jar/cover joint.

Rigid design with good ventilation by distance plates.

Easy transport with fork lift.

Earth- quake - proof.



3. Dimensions, weights BAE 48V Front Terminal Battery

Type	Moduls	Cells/ modul	Length	Depth	Height	Weight/ modul	Weight/ battery	Footprint
	units	units	mm	mm	mm	kg	kg	m ²
48V 2 SPzV 120	4	6	384	398	1224	66.7	271.8	0.153
48V 3 SPzV 180	4	6	492	398	1224	89.8	364.2	0.196
48V 4 SPzV 240	4	6	600	398	1224	115.4	466.6	0.239
48V 5 SPzV 300	4	6	708	398	1224	139.7	566.8	0.282
48V 6 SPzV 360	4	6	816	398	1224	163.5	662.0	0.325
48V 7 SPzV 420	6	4	640	398	1786	127.8	774.8	0.255
48V 8 SPzV 480	6	4	712	398	1786	145.3	881.8	0.283
48V 9 SPzV 540	6	4	784	398	1786	160.3	971.8	0.312
48V 10 SPzV 600	6	4	856	398	1786	176.9	1071	0.341
48V 3 SPzV 330	4	6	492	654	1224	171.0	689.0	0.335
48V 4 SPzV 440	4	6	600	654	1224	217.6	875.4	0.408
48V 5 SPzV 550	4	6	708	654	1224	262.9	1059	0.481
48V 6 SPzV 660	4	6	816	654	1224	305.9	1232	0.555
48V 7 SPzV 770	6	4	640	654	1786	236.4	1427	0.435
48V 8 SPzV 880	6	4	712	654	1786	262.3	1584	0.484
48V 9 SPzV 990	6	4	784	654	1786	298.5	1801	0.533
48V 10 SPzV 1100	6	4	856	654	1786	325.9	1966	0.582

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4. Electrical data BAE 48V Front Terminal Battery

Type	C10	C5	C3	C1	C1/2	R _i	I _K
Final voltage	43.2V	42.5V	42.0V	40.1V	38.4V	1.)	2.)
	Ah	Ah	Ah	Ah	Ah	mOhm	kA
48V 2 SPzV 120	120	110	98	76	61	40.8	1.21
48V 3 SPzV 180	180	165	147	114	91.5	27.2	1.82
48V 4 SPzV 240	240	220	196	152	122	20.4	2.42
48V 5 SPzV 300	300	275	245	190	152.5	16.3	3.03
48V 6 SPzV 360	360	330	294	228	183	13.6	3.64
48V 7 SPzV 420	420	385	343	266	213.5	11.7	4.24
48V 8 SPzV 480	480	440	392	304	244	10.2	4.85
48V 9 SPzV 540	540	495	441	342	274.5	9.1	5.45
48V 10 SPzV 600	600	550	490	380	305	8.2	6.06
48V 3 SPzV 330	330	300	274.5	201	156	22.4	2.16
48V 4 SPzV 440	440	400	366	268	208	16.8	2.88
48V 5 SPzV 550	550	500	457.5	335	260	13.4	3.6
48V 6 SPzV 660	660	600	549	402	312	11.2	4.32
48V 7 SPzV 770	770	700	640.5	469	364	9.6	5.04
48V 8 SPzV 880	880	800	732	536	416	8.4	5.76
48V 9 SPzV 990	990	900	823.5	603	468	7.5	6.48
48V 10 SPzV 1100	1100	1000	915	670	520	6.7	7.2

1, 2) internal resistance and short - circuit - current according to IEC 60 896-21

Reference temperature 25°C

6. Operational characteristics

Charging in stand-by	IU-characteristic: I _{max} without limitation, U = 54.5 V ± 1 %, between 10°C and 45°C ΔU/ΔT = - 0.072 V/K below 10°C in the monthly average
Float current	20-30 mA/100 Ah
Operational life	15 years in stand-by operation, float
Cycles according to IEC 60 896-2	> 1000
Maintenance-free	no topping up water during life
Operational temperature	-20°C to 45°C, recommended 10°C to 30°C
Grounding	the moduls are screwed together in an electrically conducting way
Test standard	IEC 60 986-21
safety standard, ventilation	EN 50 272-2
Transport	Batteries are not subject to ADR (road transport), if the conditions of the special rule 598 (chapter 3.3) are observed.
Assembling instruction	Racks or trays are needed to prevent cells from bulging. Assembling in racks or trays immediately after unpacking!



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