EN: This Datasheet/Document is presented by the manufacturer.

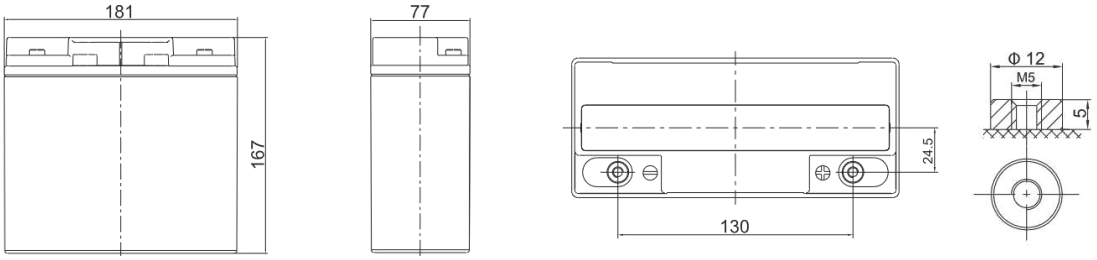
Please visit our website for pricing and availability at www.hestore.hu.

SBL 18-12i



Nominal voltage	12 V
Nominal capacity	18 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid)
Weight	~ 5,2 kg
Design life time	10-12 years (standby use) Long Life acc. Eurobat
Internal resistance	~ 16 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C Charge 0°C ~ +50°C Storage -20°C ~ +60°C
Max. discharge current	180 A (5 sec)
Short circuit current	750 A
Max. charging current	5,4 A
Charging voltage	Standby use 13,7 ~ 13,9 VDC Cycle use 14,6 ~ 14,8 VDC
Self discharge	Monthly is less than 3% at 25°C
Container material	ABS UL94HB (optional UL94-V0)



Length	181 ±2 mm
Width	77 ±2 mm
Height	167 ±2 mm
Total height	167 ±2 mm

Internal thread M5
(breaking torque 6-7Nm)

CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

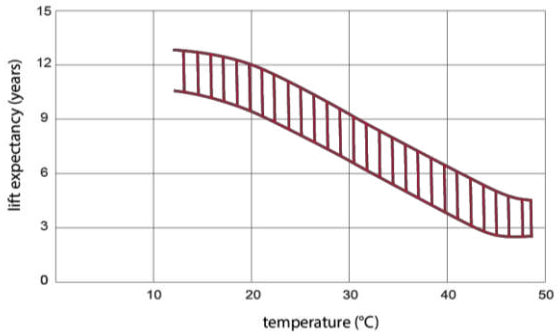
Voltage / Time	5 MIN	10 MIN	15 MIN	30 MIN	60 MIN	2 H	3 H	4 H	5 H	8 H	10 H	20 H
1.60 V	68,3	48,3	34,9	20,0	11,0	6,8	5,08	4,10	3,40	2,19	1,78	0,94
1.65 V	63,5	45,6	33,4	19,2	10,6	6,5	4,92	3,99	3,31	2,16	1,75	0,92
1.70 V	57,3	42,0	31,2	18,4	10,3	6,3	4,79	3,88	3,22	2,13	1,73	0,91
1.75 V	51,3	38,4	29,1	17,6	9,9	6,1	4,64	3,78	3,14	2,10	1,70	0,90
1.80 V	45,1	34,8	26,9	16,8	9,5	5,9	4,50	3,67	3,06	2,06	1,68	0,89
1.85 V	35,8	28,4	22,3	14,5	8,5	5,4	4,16	3,41	2,85	1,94	1,58	0,85

CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

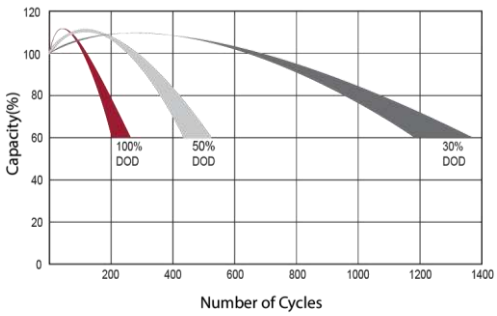
Voltage / Time	5 MIN	10 MIN	15 MIN	30 MIN	60 MIN	2 H	3 H	4 H	5 H	8 H	10 H	20 H
1.60 V	122,8	82,0	61,0	36,6	21,8	13,0	9,70	7,89	6,55	4,38	3,59	1,87
1.65 V	121,5	80,0	60,6	36,4	21,6	12,9	9,48	7,68	6,43	4,35	3,57	1,86
1.70 V	116,9	77,6	59,0	35,5	21,2	12,7	9,33	7,50	6,35	4,30	3,52	1,84
1.75 V	111,2	74,7	57,0	34,4	20,5	12,4	9,14	7,34	6,24	4,23	3,47	1,82
1.80 V	103,1	70,4	54,0	32,9	19,7	12,1	8,88	7,14	6,08	4,13	3,39	1,79
1.85 V	92,3	64,6	50,0	30,8	18,6	11,5	8,53	6,87	5,87	4,01	3,29	1,74

SBL 18-12i

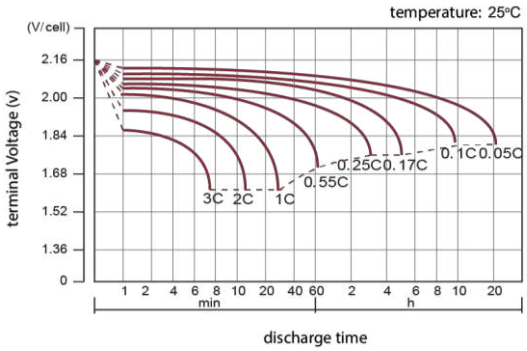
EFFECT OF TEMPERATURE ON LONG TERM LIFE



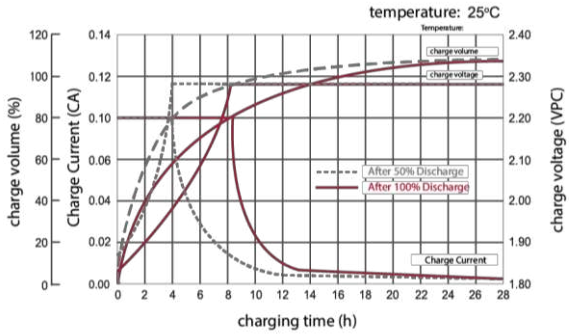
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



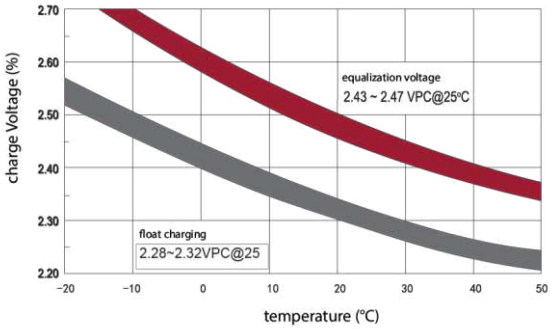
DISCHARGE CHARACTERISTICS CURVE



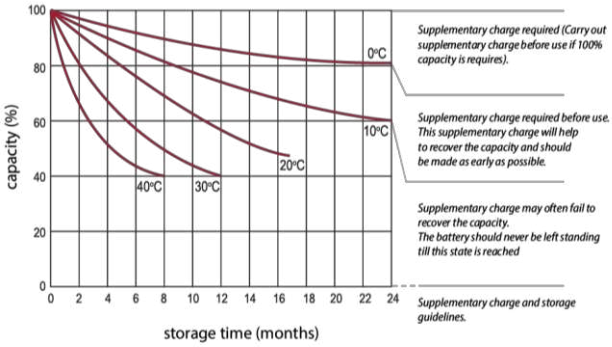
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



STORAGE CHARACTERISTICS



Standards met:

PN-EN 60896-21:2007 • PN-EN 60896-22:2007 • PN-EN 61056-1:2013 • PN-EN 61056-2:2013 • PN-E-83016:1999

Batteries manufactured in compliance with: ISO 9001 • ISO 14001

AGM Technology | VRLA Maintenance Free | Standard Type | -20st°C - 40st°C | Recyclable | 10-12 Years Life Expect. EUROBAT

UPS | Emergency Lighting | Fire Alarm Systems | Security Systems | Energy Utilities | DC Power Supply

All data contained in this document, are subject to change. The manufacturer reserves the right to change them without prior notice.

V. 1/2023