

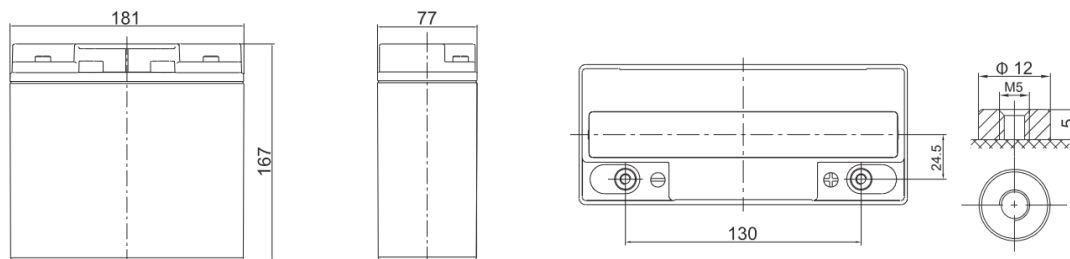


# SBL 20-12i



Nominal voltage	12 V
Nominal capacity	20 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid)
Weight	~ 5,9 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	200 A (5 sec)
Short circuit current	820 A
Max. charging current	5,9 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)	

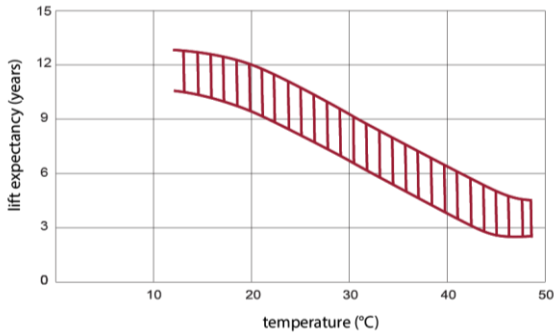
## CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Voltage / Time	5MIN	10MIN	15MIN	30MIN	60MIN	2H	3H	4H	5H	8H	10H	20H
1.60 V	75,9	53,6	38,8	22,3	12,2	7,5	5,6	4,6	3,77	2,43	1,97	1,04
1.65 V	70,6	50,7	37,1	21,4	11,8	7,3	5,5	4,4	3,68	2,40	1,95	1,03
1.70 V	63,7	46,7	34,7	20,4	11,4	7,0	5,3	4,3	3,58	2,36	1,92	1,01
1.75 V	57,0	42,7	32,3	19,5	11,0	6,8	5,2	4,2	3,49	2,33	1,89	1,00
1.80 V	50,1	38,7	29,8	18,7	10,6	6,5	5,0	4,1	3,40	2,29	1,87	0,99
1.85 V	39,8	31,6	24,8	16,1	9,5	6,0	4,6	3,8	2,17	2,15	1,76	0,94

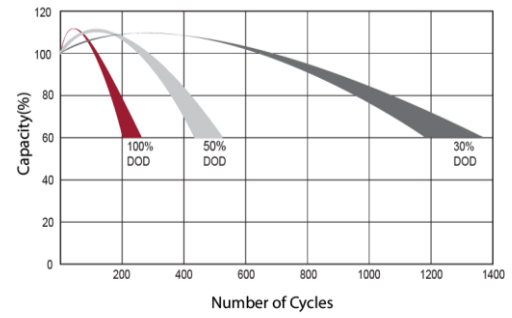
## CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Voltage / Time	5MIN	10MIN	15MIN	30MIN	60MIN	2H	3H	4H	5H	8H	10H	20H
1.60 V	136,5	91,2	67,8	40,7	24,2	14,5	10,7	8,7	7,20	4,87	3,99	2,08
1.65 V	135,0	88,9	67,3	40,4	24,0	14,4	10,5	8,5	7,15	4,84	3,96	2,07
1.70 V	129,9	86,2	65,5	39,4	23,5	14,1	10,4	8,3	7,05	4,78	3,92	2,05
1.75 V	123,5	83,0	63,3	38,2	22,8	13,8	10,2	8,2	6,93	4,70	3,85	2,02
1.80 V	114,5	78,3	60,0	36,5	21,9	13,4	9,9	7,9	6,76	4,59	3,77	1,98
1.85 V	102,6	71,8	55,6	34,2	20,7	12,8	9,5	7,6	6,52	4,45	3,66	1,93

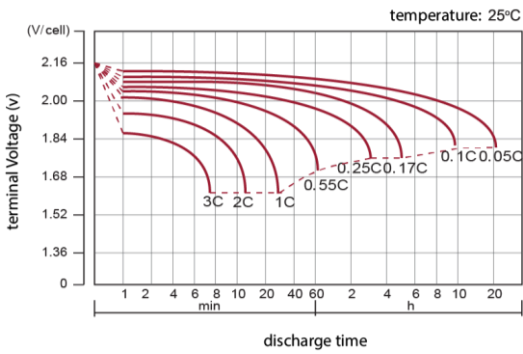
EFFECT OF TEMPERATURE ON LONG TERM LIFE



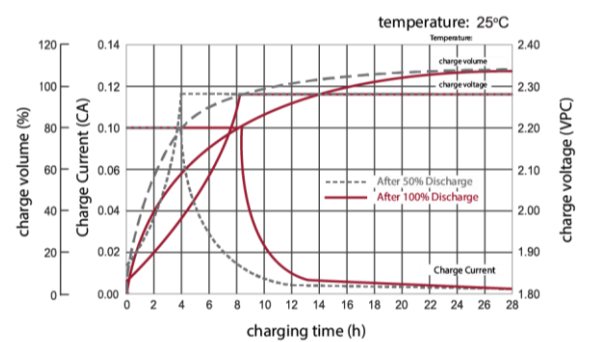
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



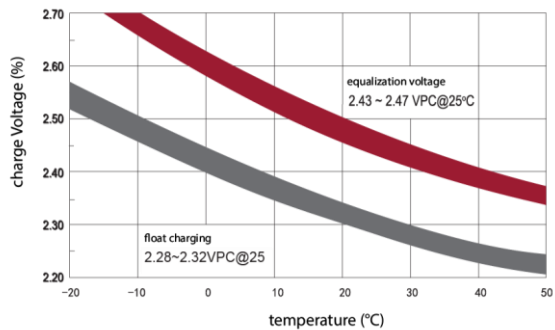
DISCHARGE CHARACTERISTICS CURVE



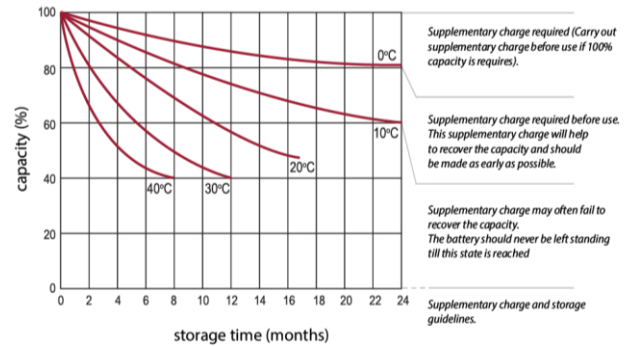
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



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 - 60st°C	Recyclable	10-12 Years Life Expect. EUROBAT
UPS	Emergency Lighting	Fire Alarm Systems	Security Systems	Energy Utilities	DC Power Supply

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