

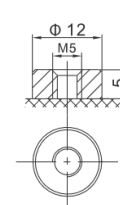
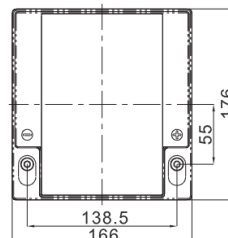
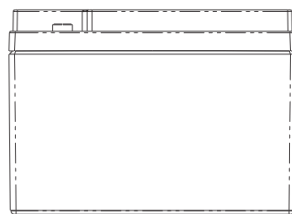
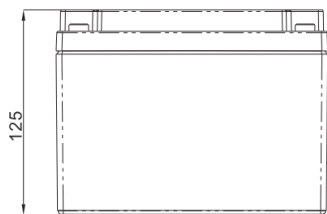


# SBL 28-12i



Nominal Voltage	12 V
Nominal capacity	28 Ah @ C20 dla rozładowania do 1,75 V/celę
Technology	AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid)
Weight	~ 8,6 kg
Design life time	10-12 years (standby use) Long Life acc. Eurobat
Internal resistance	~ 11 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C
	Charge 0°C ~ +50°C
	Storage -20°C ~ +60°C
Max. discharge current	280 A (5 sec)
Short circuit current	960 A
Max. charging current	8,4 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	176 ±2 mm
Width	166 ±2 mm
Height	125 ±2 mm
Total height	125 ±2 mm
Internal thread M5 (breaking torque 6-7Nm)	

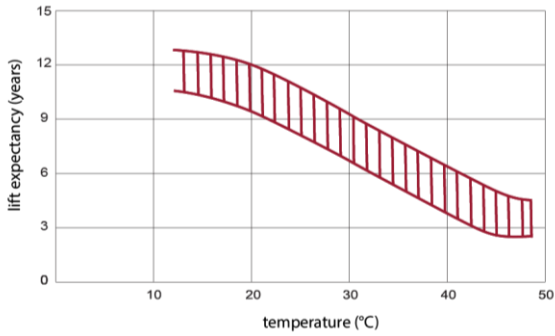
## CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

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	100,9	71,3	51,6	29,6	16,3	10,5	7,9	6,38	5,28	3,40	2,76	1,46
1.65 V	93,9	67,4	49,3	28,4	15,7	10,2	7,7	6,20	5,15	3,36	2,73	1,44
1.70 V	84,7	62,1	46,2	27,2	15,2	9,8	7,4	6,03	5,01	3,31	2,69	1,42
1.75 V	75,9	56,8	43,0	26,0	14,6	9,5	7,2	5,88	4,89	3,26	2,65	1,40
1.80 V	66,6	51,4	39,7	24,8	14,1	9,2	7,0	5,71	4,76	3,21	2,62	1,39
1.85 V	52,9	42,0	32,9	21,4	12,6	8,4	6,5	5,31	4,44	3,01	2,46	1,32

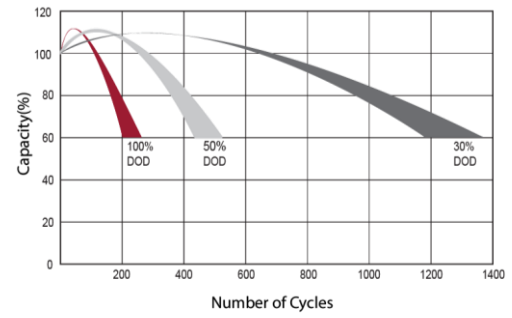
## CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

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	167,3	121,2	90,1	53,8	30,5	19,9	15,1	12,2	10,18	6,64	5,43	2,87
1.65 V	157,4	116,8	87,5	52,2	29,7	19,4	14,7	12,0	9,95	6,58	5,37	2,83
1.70 V	145,2	109,5	83,1	50,4	28,9	18,8	14,3	11,7	9,73	6,49	5,29	2,80
1.75 V	133,0	102,0	78,5	48,7	28,0	18,3	14,0	11,4	9,52	6,41	5,23	2,77
1.80 V	119,3	94,0	73,5	47,0	27,1	17,7	13,6	11,1	9,30	6,32	5,17	2,74
1.85 V	96,7	78,2	61,9	40,9	24,4	16,3	12,6	10,4	8,71	5,95	4,88	2,61

EFFECT OF TEMPERATURE ON LONG TERM LIFE



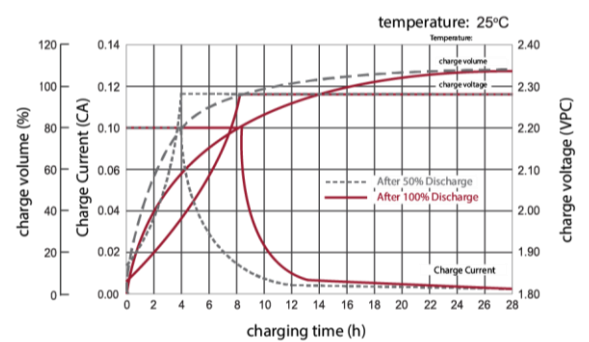
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



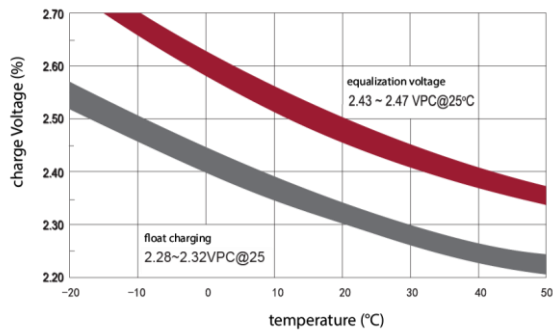
DISCHARGE CHARACTERISTICS CURVE



CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



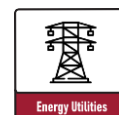
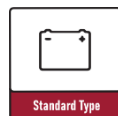
STORAGE CHARACTERISTICS



**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



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