

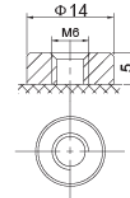
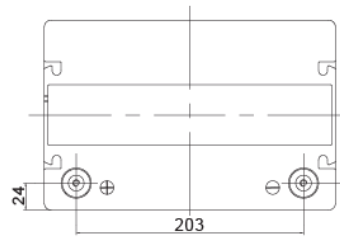
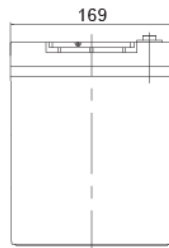
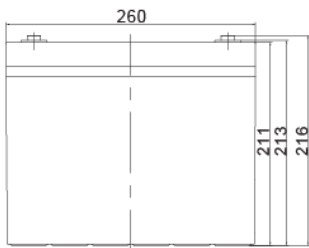


# SBL 60-12i



Nominal voltage	12 V
Nominal capacity	63,6 Ah @ C20 to 1,75 V/cell
	60 Ah @ C10 to 1,80 V/cell
Technology	AGM (Absorbent Glass Mat)
	VRLA (Valve Regulated Lead Acid)
Weight	~ 20,5 kg
Design life time	12 years (standby use)
	Long Life acc. Eurobat
Internal resistance	~ 4,8 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C
	Charge 0°C ~ +50°C
	Storage -20°C ~ +60°C
Max. discharge current	600 A (5 sec)
Short circuit current	1380 A
Max. charging current	18 A
Charging voltage	Standby use 13,6 ~ 13,8 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	260 ±2 mm
Width	169 ±2 mm
Height	211 ±2 mm
Total height	216 ±2 mm
Internal thread M6 (breaking torque 8-10Nm)	

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

Voltage/Time	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	146,4	111,2	65,7	36,7	21,8	16,9	13,30	11,32	7,61	6,33	3,310
1.65 V	138,4	106,4	63,1	35,4	21,1	16,4	12,94	11,03	7,52	6,25	3,260
1.70 V	127,4	99,6	60,3	34,3	20,5	16,0	12,59	10,74	7,41	6,16	3,220
1.75 V	116,6	92,7	57,6	33,0	19,7	15,5	12,27	10,47	7,30	6,08	3,180
1.80 V	105,6	85,6	55,1	31,7	19,0	15,0	11,91	10,20	7,18	6,00	3,150
1.85 V	86,3	71,0	47,4	28,5	17,4	13,9	11,07	9,51	6,74	5,65	2,990

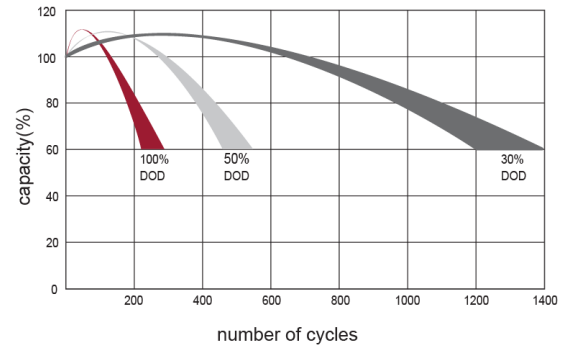
## CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Voltage/Time	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	248,9	194,5	119,3	68,9	41,40	32,32	25,54	21,82	14,86	12,44	6,520
1.65 V	239,8	188,7	115,8	66,9	40,27	31,46	24,94	21,33	14,72	12,31	6,430
1.70 V	224,8	179,4	111,8	65,1	39,16	30,74	24,35	20,85	14,53	12,14	6,360
1.75 V	209,5	169,3	107,9	63,1	37,96	29,95	23,82	20,40	14,35	11,99	6,290
1.80 V	192,9	158,6	104,2	61,1	36,79	29,13	23,22	19,94	14,14	11,86	6,230
1.85 V	160,5	133,5	90,6	55,1	33,89	27,05	21,66	18,66	13,31	11,18	5,920

EFFECT OF TEMPERATURE ON LONG TERM LIFE



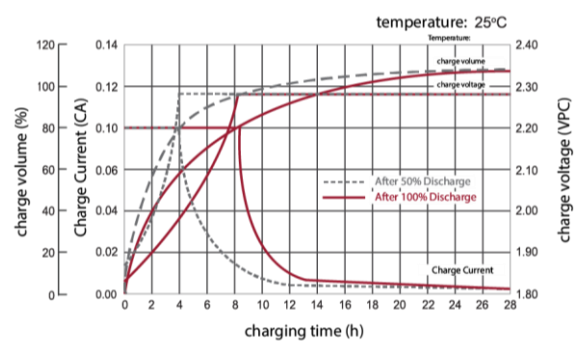
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



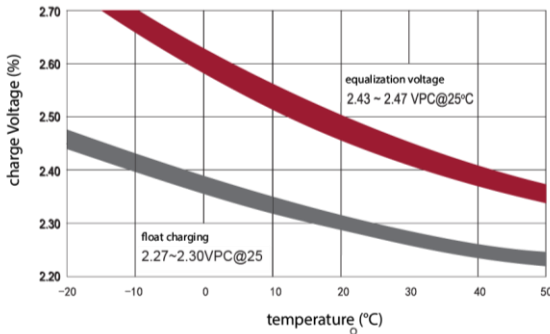
DISCHARGE CHARACTERISTICS CURVE



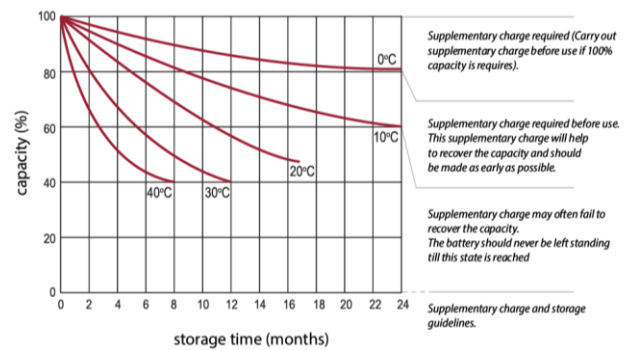
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



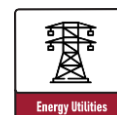
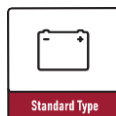
STORAGE CHARACTERISTICS



**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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