

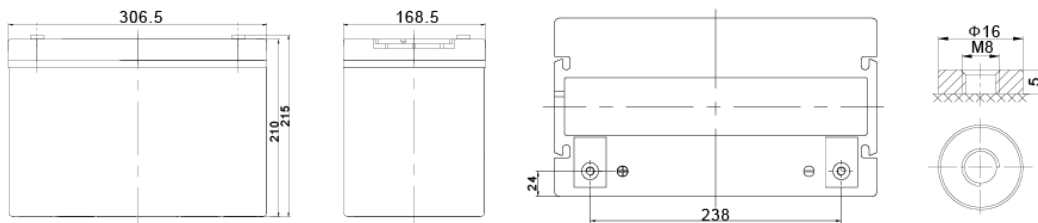


# SBL 100-12HR



Nominal voltage	12 V
Nominal capacity	2527 W / 10min to 1,67 V/cell 90 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid)
Weight	~ 29 kg
Design life time	15 years (standby use) Very Long Life acc. Eurobat
Internal resistance	~ 5,5 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C
	Charge 0°C ~ +50°C
	Storage -20°C ~ +60°C
Max. discharge current	900 (5 sec)
Short circuit current	2100 A
Max. charging current	27 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	306.5 ±2 mm
Width	168.5 ±2 mm
Height	210 ±2 mm
Total height	215 ±2 mm
Terminal	Internal thread M8 (breaking torque 10-12 Nm)

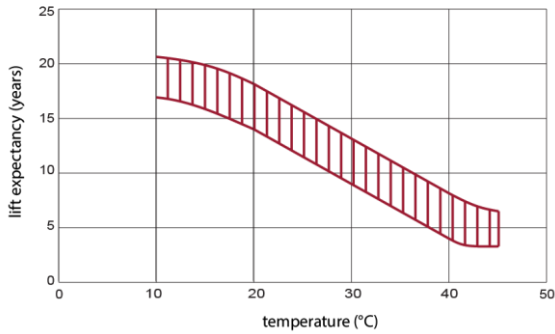
## CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	305,8	267,2	241,5	188,0	153,1	112,9	65,3	46,9
1.67 V	277,5	245,0	223,2	175,4	143,9	106,8	62,3	45,0
1.70 V	265,7	253,5	215,2	170,0	139,9	104,2	61,1	44,1
1.75 V	245,3	219,4	201,7	160,8	132,9	99,8	58,9	42,7
1.80 V	224,8	203,2	188,3	152,2	126,6	95,6	56,8	41,3
1.85 V	192,9	173,1	159,5	130,9	109,9	84,6	51,3	37,7

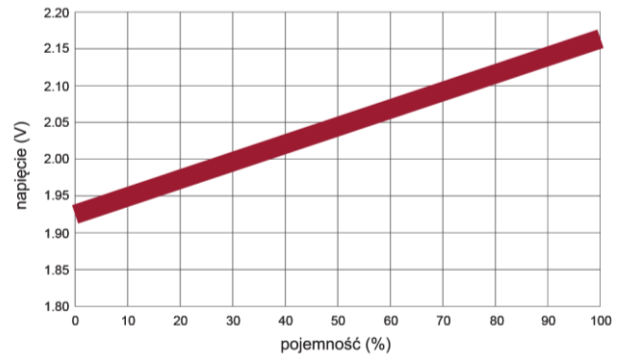
## CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	584,4	507,8	459,5	358,4	296,0	219,3	125,5	93,3
1.67 V	546,0	481,0	435,3	351,4	280,9	210,3	120,8	89,7
1.70 V	529,6	469,6	424,5	344,6	274,8	206,1	118,7	88,0
1.75 V	506,5	451,8	403,7	332,6	267,3	202,5	118,2	87,2
1.80 V	483,2	434,2	382,8	320,5	263,1	199,2	117,6	86,3
1.85 V	384,8	347,0	320,9	264,0	222,4	171,5	99,7	73,6

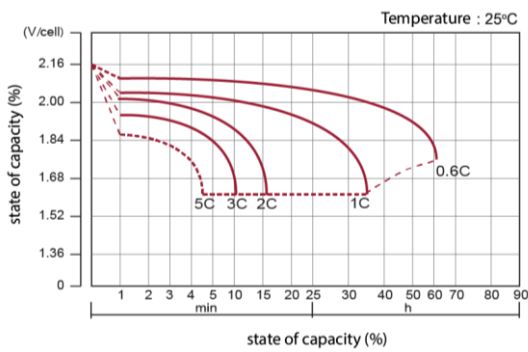
EFFECT OF TEMPERATURE ON LONG TERM LIFE



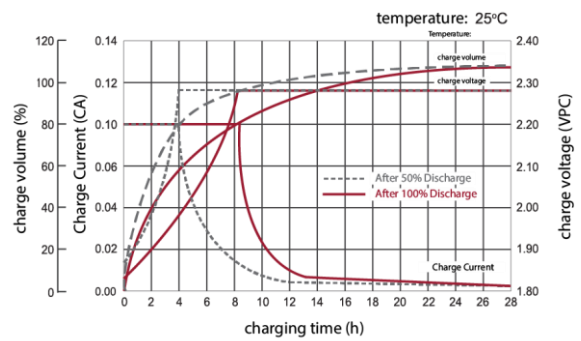
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



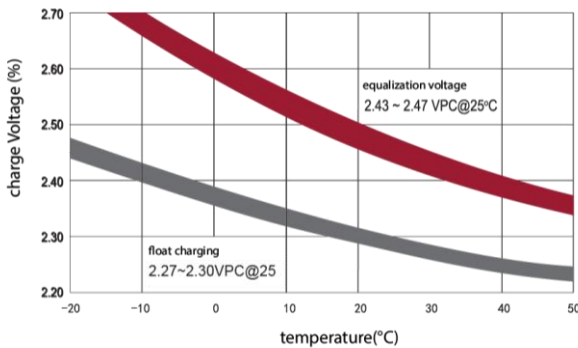
DISCHARGE CHARACTERISTICS CURVE



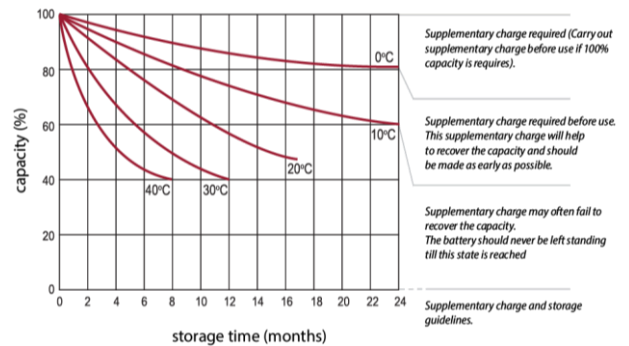
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



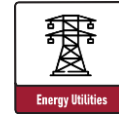
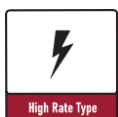
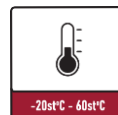
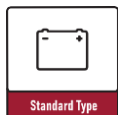
STORAGE CHARACTERISTICS



**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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