

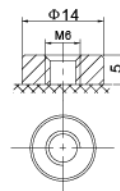
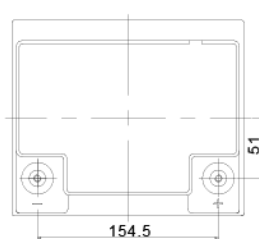
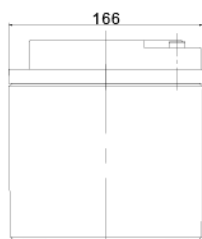
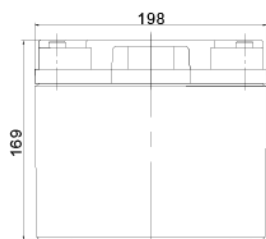


SBL 50-12HR



Nominal voltage	12 V
Nominal capacity	1127 W / 10min to 1,67 V/cell 40 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid)
Weight	~ 13 kg
Design life time	15 years (standby use) Very Long Life acc. Eurobat
Internal resistance	~ 8,5 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C Charge 0°C ~ +50°C Storage -20°C ~ +60°C
Max. discharge current	400 A (5 sec)
Short circuit current	1100 A
Max. charging current	12 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	198 ±2 mm
Width	166 ±2 mm
Height	169 ±2 mm
Total height	169 ±2 mm
Terminal	Internal thread M6 (breaking torque 8-10 Nm)

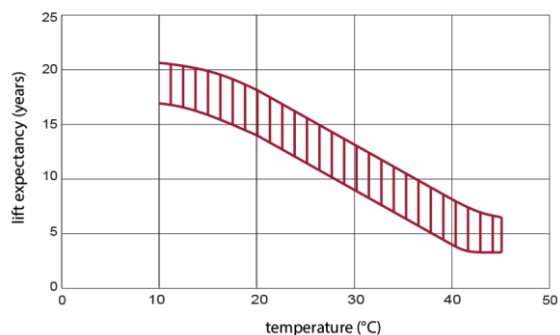
CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Napięcie/Czas	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	149,9	124,1	108,7	83,0	67,5	49,8	28,8	20,7
1.67 V	136,0	113,8	100,5	77,4	63,5	47,1	27,5	19,8
1.70 V	130,2	109,4	96,9	75,0	61,7	46,0	26,9	19,5
1.75 V	120,2	101,9	90,8	71,0	58,6	44,0	26,0	18,8
1.80 V	110,2	94,4	84,8	67,1	55,9	42,2	25,1	18,2
1.85 V	94,6	80,4	71,8	57,7	48,5	37,3	22,6	16,6

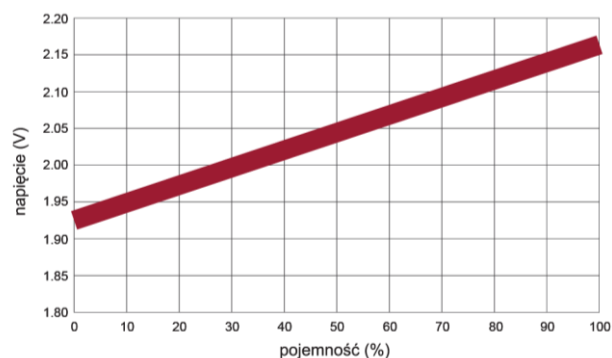
CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Napięcie/Czas	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	275,4	231,1	204,5	158,4	129,8	93,8	54,1	39,1
1.67 V	256,4	216,8	193,0	151,6	123,9	90,3	52,1	37,8
1.70 V	247,9	210,3	187,6	148,7	121,2	88,8	51,2	37,3
1.75 V	232,7	198,7	178,2	143,5	116,4	87,4	49,8	36,3
1.80 V	216,5	186,5	168,3	138,3	113,5	85,9	48,3	35,3
1.85 V	188,6	161,1	144,5	116,4	98,1	75,7	44,0	32,5

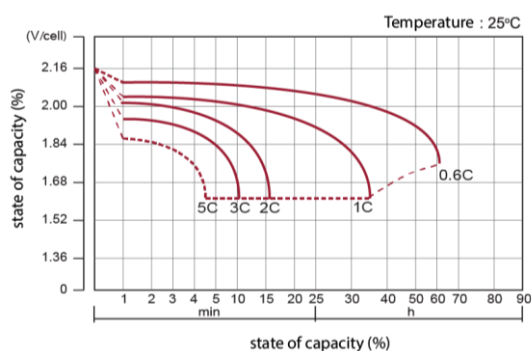
EFFECT OF TEMPERATURE ON LONG TERM LIFE



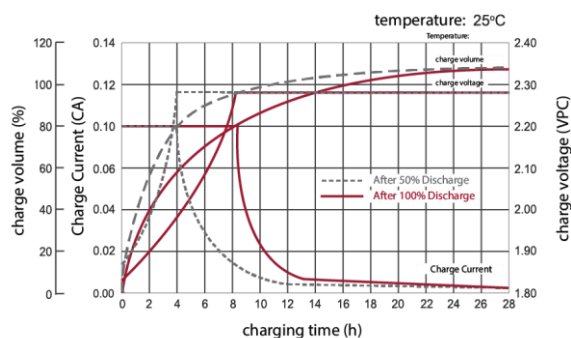
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



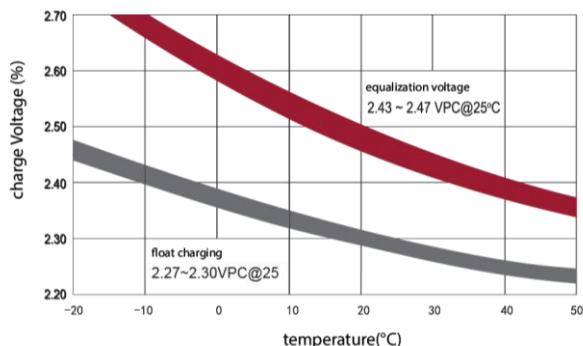
DISCHARGE CHARACTERISTICS CURVE



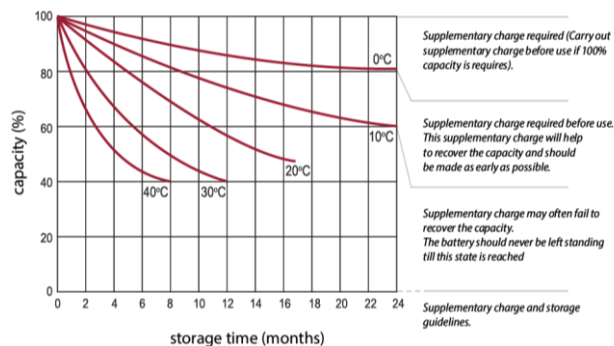
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



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

