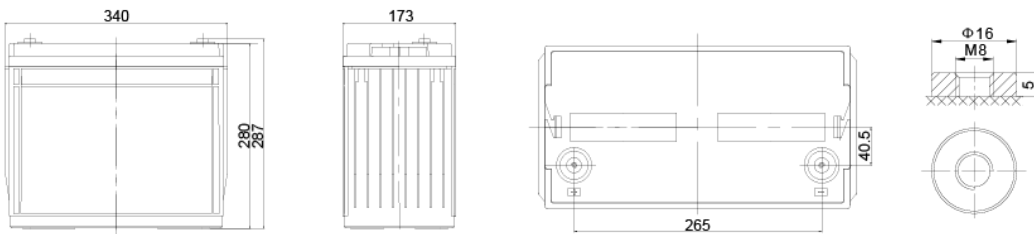




# SBL 151-12HR

Nominal voltage	12 V
Nominal capacity	3881 W / 10min to 1,67 V/cell
	145 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat)
	VRLA (Valve Regulated Lead Acid)
Weight	~ 44 kg
Design life time	15 years (standby use)
	Very Long Life acc. Eurobat
Internal resistance	~ 4,5 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C
	Charge 0°C ~ +50°C
	Storage -20°C ~ +60°C
Max. discharge current	1450 (5 sec)
Short circuit current	2900 A
Max. charging current	43,5 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	340 ±2 mm
Width	173 ±2 mm
Height	280 ±2 mm
Total height	287 ±2 mm
Terminal	Internal thread M8 (breaking torque 10-12 Nm)

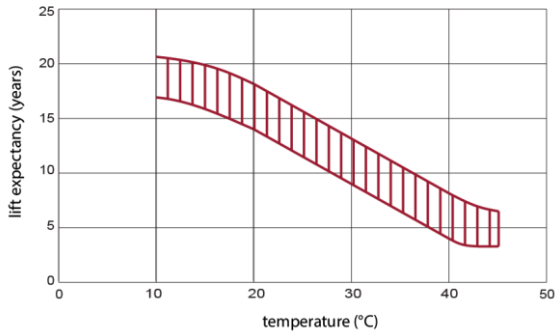
## CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	426,1	378,6	350,5	287,6	234,2	172,6	99,9	71,7
1.67 V	386,7	347,1	324,0	268,2	220,1	163,3	95,3	68,8
1.70 V	370,2	333,7	312,3	260,0	213,9	159,4	93,4	67,4
1.75 V	341,8	310,8	292,8	246,0	203,2	152,6	90,1	65,3
1.80 V	313,2	287,9	273,3	232,8	193,7	146,2	86,9	63,2
1.85 V	268,8	245,2	231,5	200,1	168,1	129,3	78,5	57,6

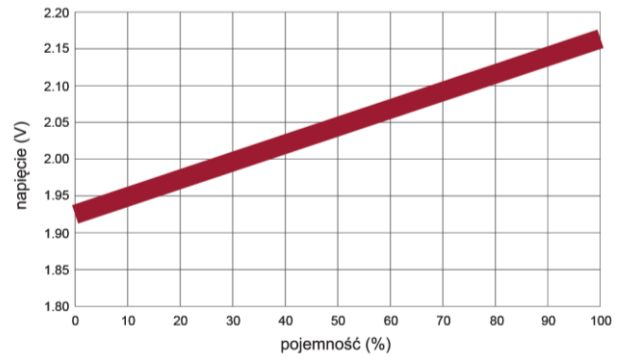
## CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	868,4	754,6	682,8	551,4	450,0	335,4	188,5	140,1
1.67 V	811,4	714,7	646,8	527,7	429,5	321,6	181,4	134,7
1.70 V	786,9	697,8	630,8	517,5	420,3	315,1	178,2	132,2
1.75 V	752,6	671,4	599,8	499,9	403,4	304,7	177,5	130,9
1.80 V	718,0	645,2	568,8	481,3	395,1	299,1	176,5	129,6
1.85 V	536,2	491,5	465,8	403,7	340,1	262,3	152,4	112,6

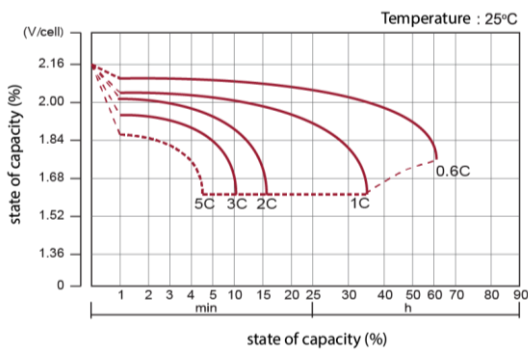
EFFECT OF TEMPERATURE ON LONG TERM LIFE



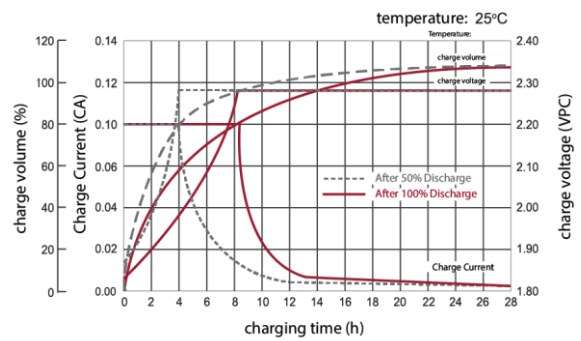
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



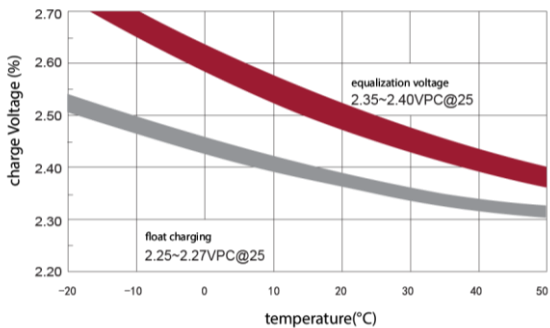
DISCHARGE CHARACTERISTICS CURVE



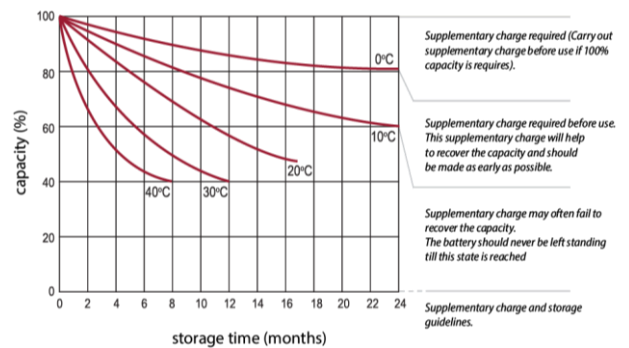
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



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

AGM Technology	VRLA	Standard Type	-20st°C - 60st°C	Recyclable	> 12 Years
High Rate Type	UPS	Emergency Lighting	Security Systems	Energy Utilities	DC Power Supply

All data contained in this document, are subject to change. Wamtechnik Sp. z o.o. reserves the right to change them without prior notice.