

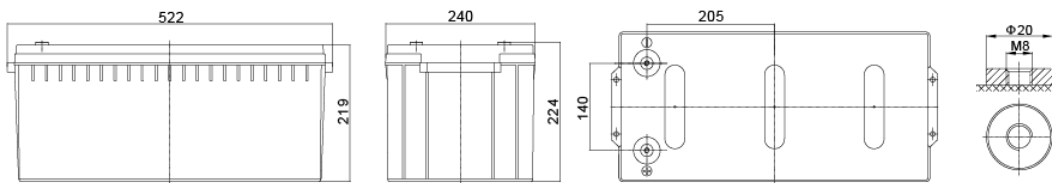


# SBL 225-12HR



Nominal voltage	12 V
Nominal capacity	5367 W / 10min to 1,67 V/cell 200 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid)
Weight	~ 63 kg
Design life time	15 years (standby use) Very Long Life acc. Eurobat
Internal resistance	~ 3,5 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C
	Charge 0°C ~ +50°C
	Storage -20°C ~ +60°C
Max. discharge current	2000 (5 sec)
Short circuit current	3850 A
Max. charging current	60 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	522 ±2 mm
Width	240 ±2 mm
Height	219 ±2 mm
Total height	224 ±2 mm
Terminal	Internal thread M8 (breaking torque 10-12 Nm)

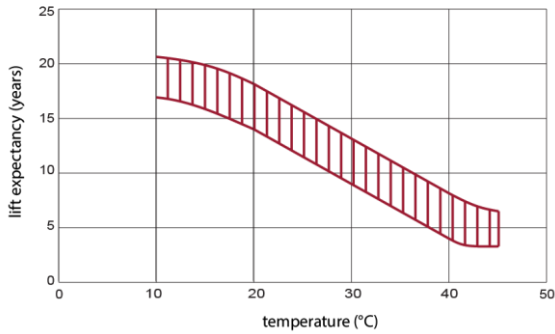
## CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	649,6	537,7	471,2	359,5	292,7	215,7	124,9	89,6
1.67 V	589,4	493,1	435,4	335,2	275,1	204,1	119,1	85,9
1.70 V	564,4	474,0	419,8	325,0	267,4	199,2	116,7	84,3
1.75 V	521,1	441,5	393,5	307,5	254,0	190,8	112,7	81,6
1.80 V	477,4	408,9	367,3	290,9	242,1	182,7	108,6	79,0
1.85 V	409,8	348,3	311,2	250,2	210,1	161,6	98,1	72,0

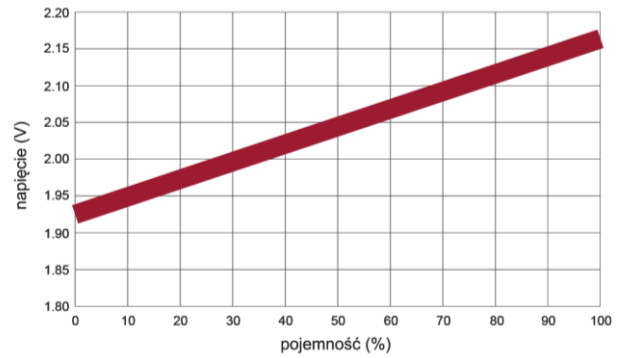
## CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	1260,9	1063,6	944,1	734,2	602,5	460,0	282,1	211,9
1.67 V	1178,0	1007,4	894,5	702,7	567,5	442,8	271,5	203,8
1.70 V	1142,5	983,7	872,3	689,1	552,3	435,3	266,8	200,0
1.75 V	1092,7	946,4	829,4	665,1	545,0	428,4	265,7	197,9
1.80 V	1042,5	909,5	786,6	641,0	535,5	421,3	264,2	195,9
1.85 V	817,4	698,2	626,0	504,6	425,2	327,8	190,5	140,7

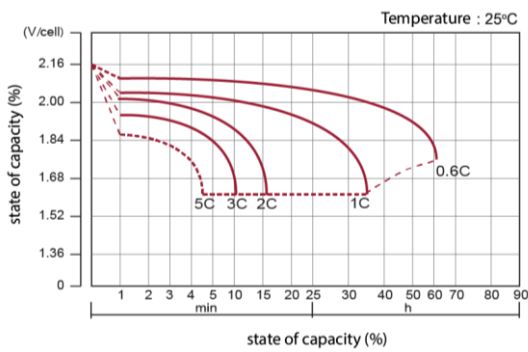
EFFECT OF TEMPERATURE ON LONG TERM LIFE



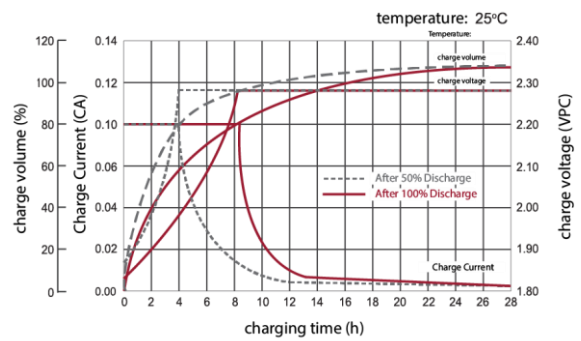
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



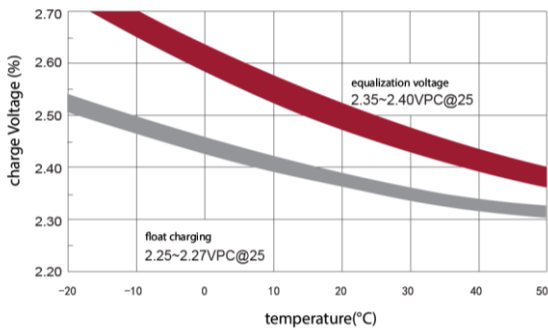
DISCHARGE CHARACTERISTICS CURVE



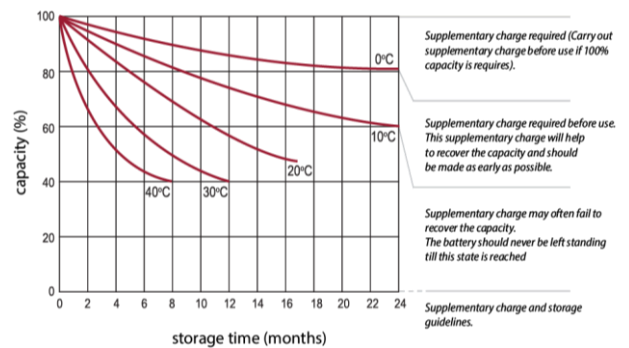
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



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.