

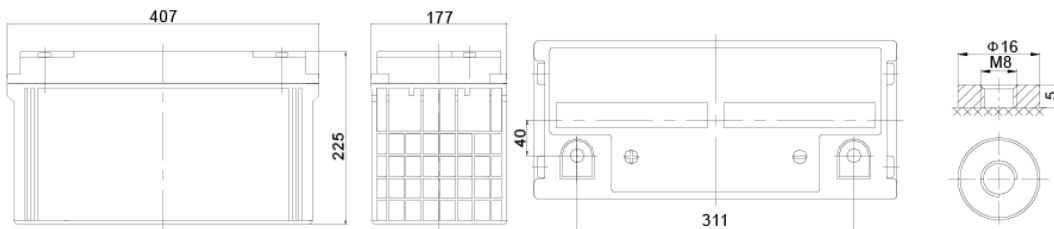


SBL 135-12HR



Nominal voltage	12 V
Nominal capacity	3381 W / 10min to 1,67 V/cell 120 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid)
Weight	~ 38 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	1200 (5 sec)
Short circuit current	3000 A
Max. charging current	36 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	407 ±2 mm
Width	177 ±2 mm
Height	225 ±2 mm
Total height	225 ±2 mm
Terminal	Internal thread M8 (breaking torque 10-12 Nm)

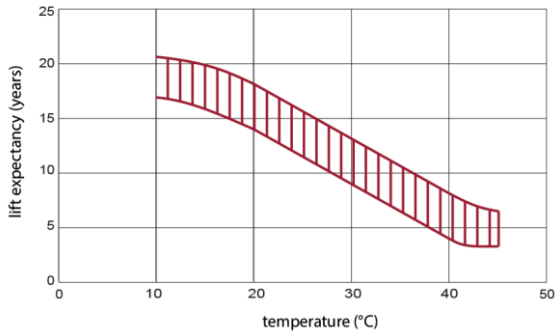
CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	404,7	342,5	319,7	248,9	202,6	149,4	86,4	62,0
1.67 V	367,3	314,1	295,4	232,1	190,5	141,3	82,5	59,5
1.70 V	351,7	301,9	284,8	225,0	185,1	137,9	80,8	58,4
1.75 V	324,7	281,2	267,0	212,9	175,9	132,1	78,0	56,5
1.80 V	297,5	260,4	249,2	201,4	167,8	126,5	75,2	54,7
1.85 V	255,3	221,8	211,1	173,2	145,5	111,9	67,9	49,9

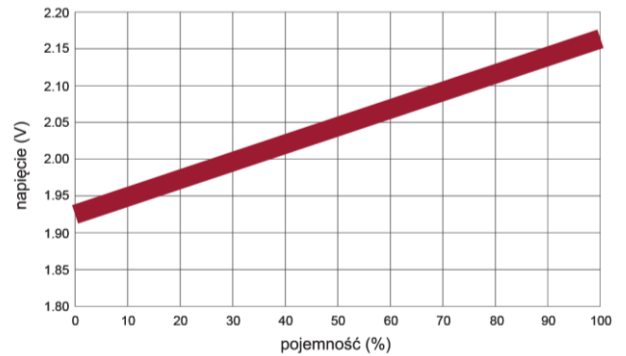
CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	756,5	657,3	601,2	475,3	389,5	290,2	162,5	120,8
1.67 V	706,8	622,6	567,4	454,9	371,7	278,3	156,4	116,1
1.70 V	685,5	607,9	551,6	446,1	363,7	272,7	153,7	113,9
1.75 V	655,6	584,9	523,9	430,6	349,1	263,7	153,0	112,8
1.80 V	625,5	562,1	495,5	414,9	340,6	257,8	152,2	111,7
1.85 V	509,3	444,7	424,7	349,3	294,3	227,0	131,9	97,4

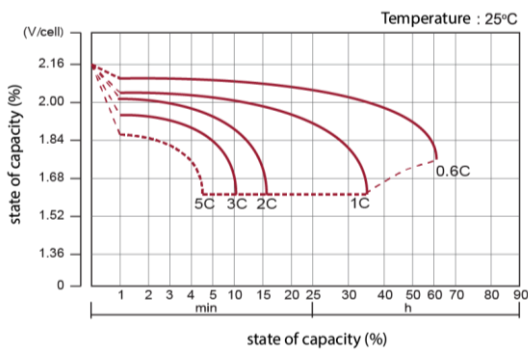
EFFECT OF TEMPERATURE ON LONG TERM LIFE



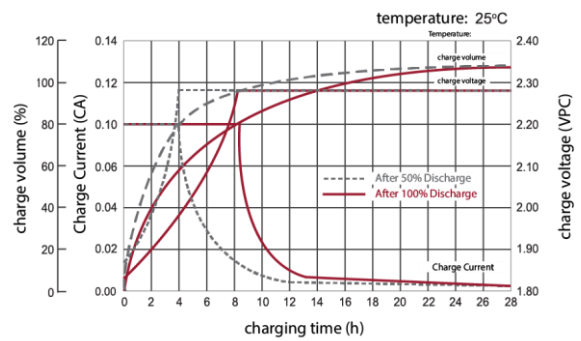
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



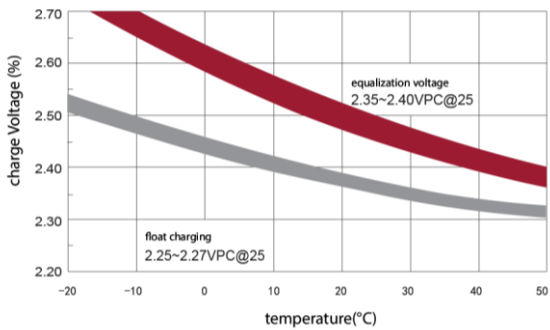
DISCHARGE CHARACTERISTICS CURVE



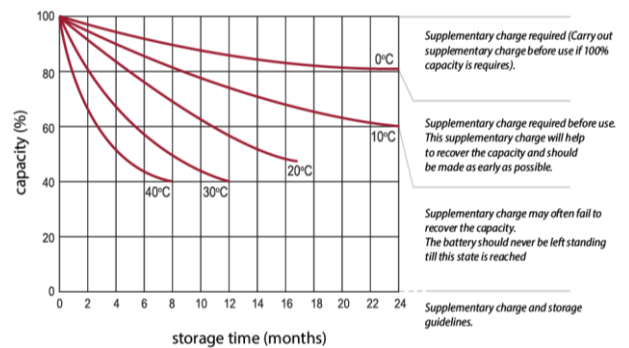
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



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.