

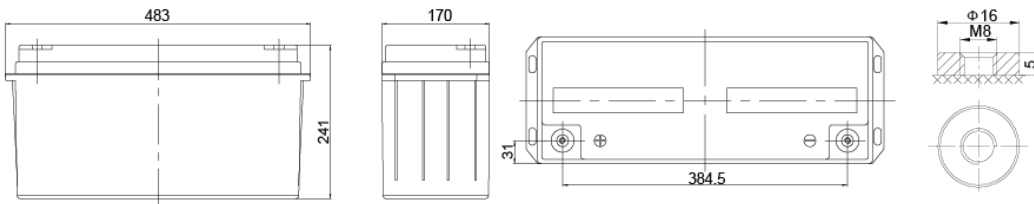


# SBL 170-12HR



Nominal voltage	12 V
Nominal capacity	4091 W / 10min to 1,67 V/cell
	150 Ah @ C20 to 1,75 V/cell
Technology	AGM (Absorbent Glass Mat)
	VRLA (Valve Regulated Lead Acid)
Weight	~ 46 kg
Design life time	15 years (standby use)
	Very Long Life acc. Eurobat
Internal resistance	~ 3,8 mΩ (full charged)

Operating temperature range	Discharge -20°C ~ +60°C
	Charge 0°C ~ +50°C
	Storage -20°C ~ +60°C
Max. discharge current	1500 (5 sec)
Short circuit current	3100 A
Max. charging current	45 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	483 ±2 mm
Width	170 ±2 mm
Height	241 ±2 mm
Total height	241 ±2 mm
Terminal	Internal thread M8 (breaking torque 10-12 Nm)

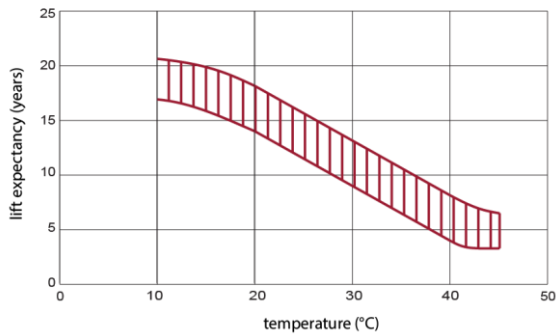
## CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	467,06	414,94	384,23	315,20	256,66	189,18	109,48	78,57
1.67 V	423,83	380,50	355,11	293,94	241,25	179,01	104,44	75,37
1.70 V	405,81	365,75	342,33	285,01	234,47	174,70	102,36	73,91
1.75 V	374,68	340,68	320,93	269,60	222,77	167,31	98,80	71,59
1.80 V	343,28	315,52	299,54	255,12	212,29	160,22	95,24	69,26
1.85 V	294,65	268,77	253,77	219,38	184,25	141,73	86,04	63,15

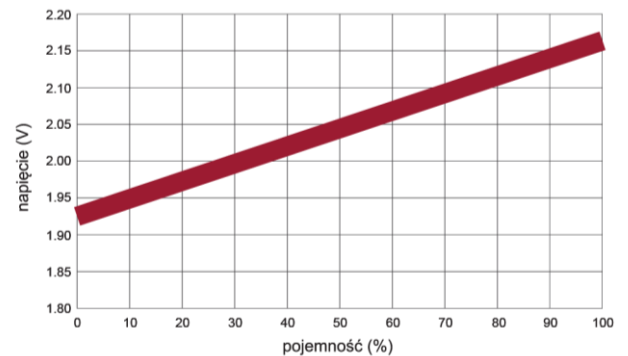
## CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

Voltage/Time	5 MIN	8 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN
1.60 V	858,20	772,70	722,69	600,82	493,29	367,58	205,61	148,70
1.67 V	798,76	724,93	681,98	570,01	470,80	352,48	197,90	143,75
1.70 V	772,51	703,20	662,96	556,76	460,63	345,40	194,64	141,72
1.75 V	724,91	664,52	629,68	532,73	442,14	334,00	189,30	137,93
1.80 V	674,73	623,76	594,62	509,00	425,51	322,29	183,66	134,15
1.85 V	587,75	538,77	510,52	442,45	372,82	287,47	167,04	123,38

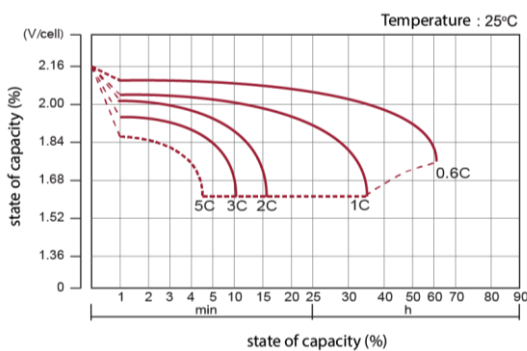
EFFECT OF TEMPERATURE ON LONG TERM LIFE



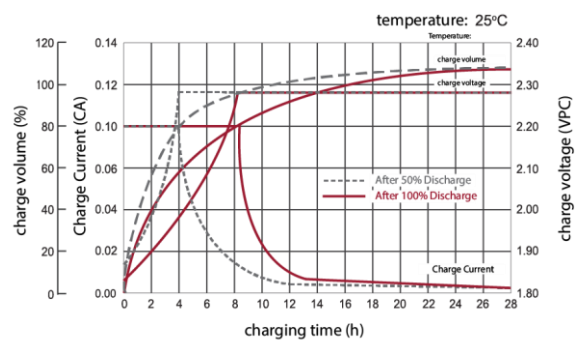
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



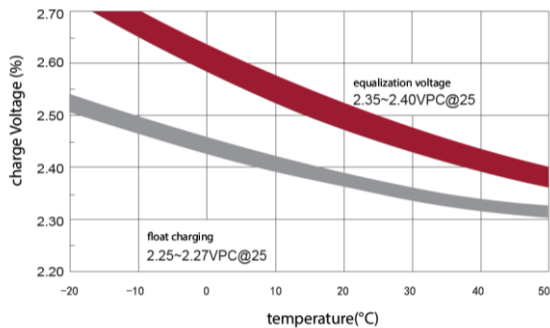
DISCHARGE CHARACTERISTICS CURVE



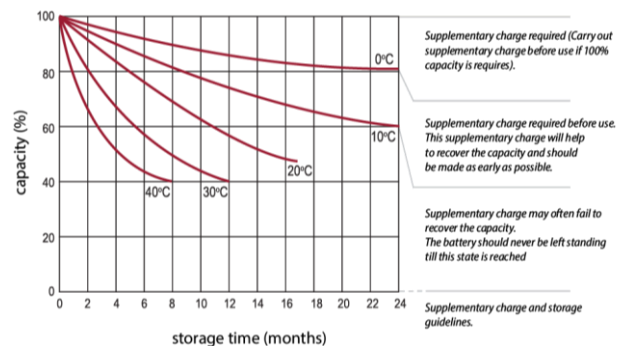
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



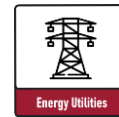
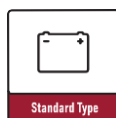
STORAGE CHARACTERISTICS



**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



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

**Wamtechnik Sp. z o.o.** ul.Techniczna 2 bud. H 05-500 Piaseczno  
Tel. +48 22 701 26 00, [office@wamtechnik.pl](mailto:office@wamtechnik.pl), [www.wamtechnik.pl](http://www.wamtechnik.pl)