

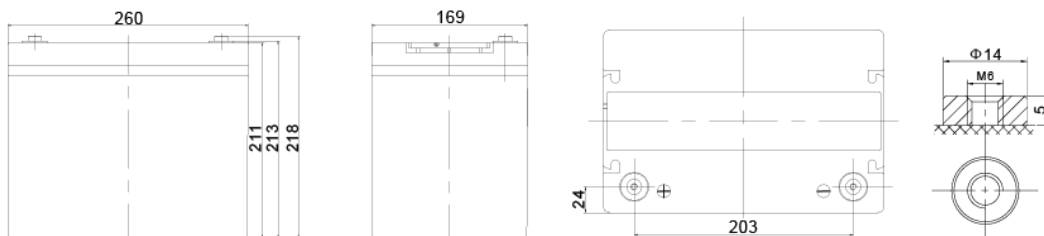


SBL 85-12HR



| | |
|---------------------|----------------------------------|
| Nominal voltage | 12 V |
| Nominal capacity | 2113 W / 10min to 1,67 V/cell |
| | 75 Ah @ C20 to 1,75 V/cell |
| Technology | AGM (Absorbent Glass Mat) |
| | VRLA (Valve Regulated Lead Acid) |
| Weight | ~ 24,8 kg |
| Design life time | 15 years (standby use) |
| | Very Long Life acc. Eurobat |
| Internal resistance | ~ 6 mΩ (full charged) |

| | |
|-----------------------------|---------------------------------|
| Operating temperature range | Discharge -20°C ~ +60°C |
| | Charge 0°C ~ +50°C |
| | Storage -20°C ~ +60°C |
| Max. discharge current | 750 A (5 sec) |
| Short circuit current | 1850 A |
| Max. charging current | 22,5 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 | 260 ±2 mm |
| Width | 169 ±2 mm |
| Height | 211 ±2 mm |
| Total height | 218 ±2 mm |
| Terminal | Internal thread M6 (breaking torque 8-10 Nm) |

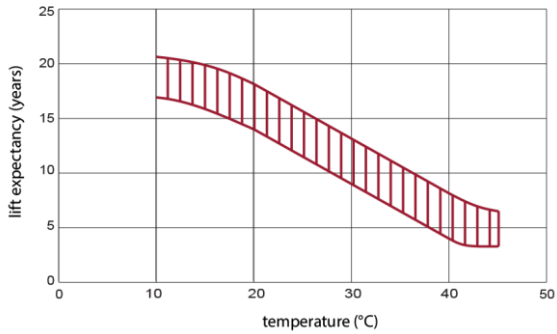
CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

| Voltage/Time | 5 MIN | 8 MIN | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 60 MIN | 90 MIN |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.60 V | 235,00 | 203,80 | 186,70 | 154,80 | 126,10 | 92,91 | 53,77 | 38,59 |
| 1.67 V | 213,20 | 186,90 | 172,50 | 144,40 | 118,50 | 87,92 | 51,29 | 37,02 |
| 1.70 V | 204,20 | 179,60 | 166,30 | 140,00 | 115,20 | 85,80 | 50,27 | 36,30 |
| 1.75 V | 188,50 | 167,30 | 155,90 | 132,40 | 109,40 | 82,17 | 48,53 | 35,16 |
| 1.80 V | 172,70 | 155,00 | 145,50 | 125,30 | 104,30 | 78,69 | 46,78 | 34,01 |
| 1.85 V | 148,20 | 132,00 | 123,30 | 107,70 | 90,49 | 69,61 | 42,26 | 31,01 |

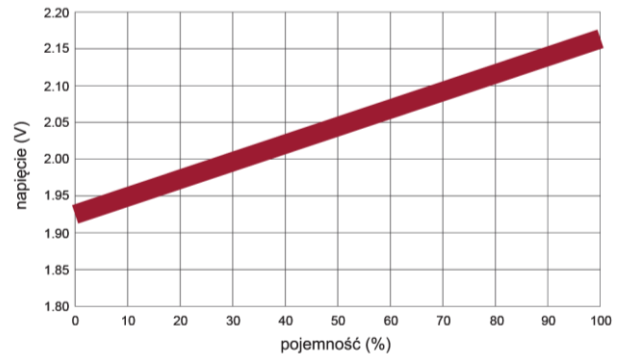
CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

| Voltage/Time | 5 MIN | 8 MIN | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 60 MIN | 90 MIN |
|--------------|-------|-------|--------|--------|--------|--------|--------|--------|
| 1.60 V | 472,8 | 410,8 | 371,7 | 297,1 | 242,3 | 180,5 | 101,6 | 75,5 |
| 1.67 V | 441,8 | 389,1 | 352,2 | 284,3 | 231,2 | 173,1 | 97,7 | 72,6 |
| 1.70 V | 428,5 | 379,9 | 343,5 | 278,8 | 226,2 | 169,6 | 96,0 | 71,2 |
| 1.75 V | 409,8 | 365,5 | 326,6 | 269,1 | 217,2 | 164,0 | 95,7 | 70,5 |
| 1.80 V | 390,9 | 351,3 | 309,7 | 259,3 | 212,9 | 161,1 | 95,1 | 69,8 |
| 1.85 V | 295,7 | 264,6 | 248,0 | 217,3 | 183,1 | 141,2 | 82,0 | 60,6 |

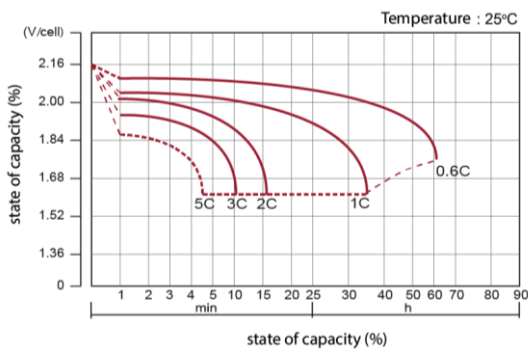
EFFECT OF TEMPERATURE ON LONG TERM LIFE



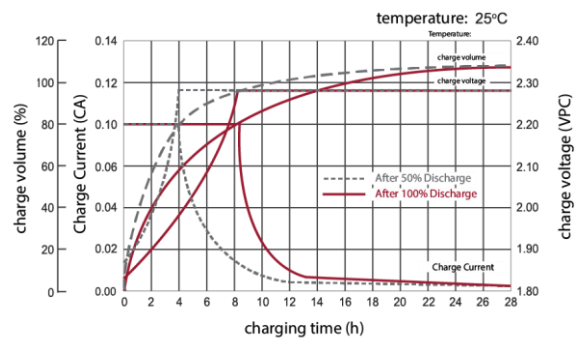
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



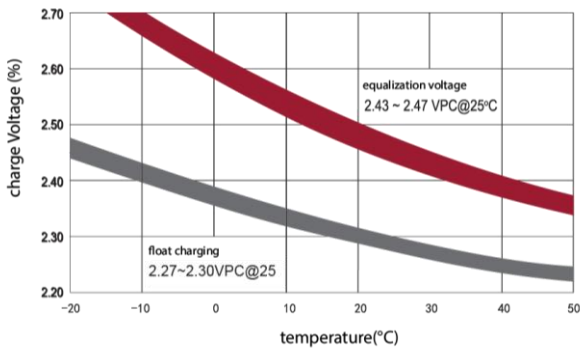
DISCHARGE CHARACTERISTICS CURVE



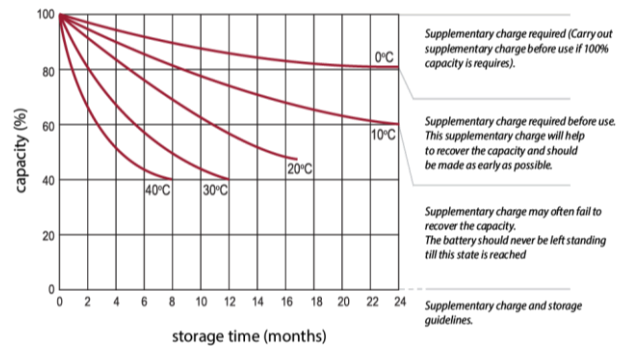
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



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 Life Expect. EUROBAT |
| 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.