

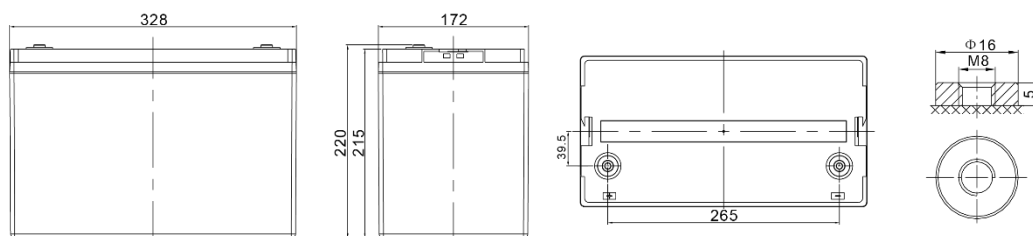


SBL 120-12i(sh)



| | |
|---------------------|----------------------------------|
| Nominal voltage | 12 V |
| Nominal capacity | 120 Ah @ C20 to 1,75 V/cel |
| | 110 Ah @ C10 to 1,80 V/cel |
| Technology | AGM (Absorbent Glass Mat) |
| | VRLA (Valve Regulated Lead Acid) |
| Weight | ~ 32 kg |
| Design life time | 12 years (standby use) |
| | Long Life acc. Eurobat |
| Internal resistance | ~ 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 | 1100 A (5 sec) |
| Short circuit current | 2300 A |
| Max. charging current | 33 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 | 328 ±2 mm |
| Width | 172 ±2 mm |
| Height | 215 ±2 mm |
| Total height | 220 ±2 mm |
| Internal thread M8 (breaking torque 10-12 Nm) | |

CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

| Voltage/Time | 10 MIN | 15 MIN | 30 MIN | 60 MIN | 2 H | 3 H | 4 H | 5 H | 8 H | 10 H | 20 H |
|--------------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| 1.60 V | 249,9 | 198,5 | 119,3 | 67,2 | 40,0 | 31,0 | 24,4 | 20,8 | 13,9 | 11,6 | 6,19 |
| 1.65 V | 236,2 | 189,8 | 114,5 | 64,9 | 38,8 | 30,1 | 23,7 | 20,2 | 13,8 | 11,5 | 6,14 |
| 1.70 V | 217,4 | 177,7 | 109,4 | 62,8 | 37,5 | 29,3 | 23,1 | 19,7 | 13,6 | 11,3 | 6,07 |
| 1.75 V | 199,0 | 165,4 | 104,6 | 60,5 | 36,2 | 28,4 | 22,5 | 19,2 | 13,4 | 11,1 | 6,00 |
| 1.80 V | 180,2 | 152,7 | 100,0 | 58,2 | 34,9 | 27,5 | 21,8 | 18,7 | 13,2 | 11,0 | 5,87 |
| 1.85 V | 147,2 | 126,7 | 86,1 | 52,2 | 32,0 | 25,4 | 20,3 | 17,4 | 12,4 | 10,4 | 5,71 |

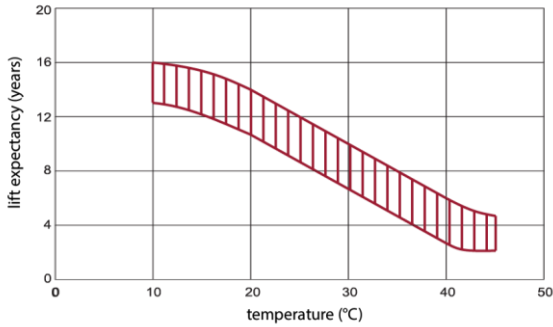
CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

| Voltage/Time | 10 MIN | 15 MIN | 30 MIN | 60 MIN | 2 H | 3 H | 4 H | 5 H | 8 H | 10 H | 20 H |
|--------------|--------|--------|--------|--------|------|------|------|------|------|------|-------|
| 1.60 V | 442,9 | 351,4 | 216,6 | 129,8 | 78,8 | 59,3 | 47,6 | 40,4 | 27,3 | 23,4 | 12,02 |
| 1.65 V | 441,1 | 349,4 | 213,3 | 128,8 | 78,3 | 57,9 | 47,3 | 40,1 | 27,1 | 23,2 | 11,94 |
| 1.70 V | 428,0 | 339,9 | 208,2 | 126,0 | 76,9 | 57,0 | 46,6 | 39,6 | 26,8 | 22,9 | 11,83 |
| 1.75 V | 412,1 | 328,4 | 201,9 | 122,4 | 75,2 | 55,9 | 45,7 | 38,9 | 26,4 | 22,6 | 11,67 |
| 1.80 V | 388,5 | 311,6 | 192,9 | 117,3 | 72,9 | 54,3 | 44,5 | 37,9 | 25,8 | 22,1 | 11,45 |
| 1.85 V | 356,2 | 288,5 | 180,6 | 110,9 | 69,7 | 52,1 | 42,8 | 36,6 | 25,0 | 21,4 | 11,17 |

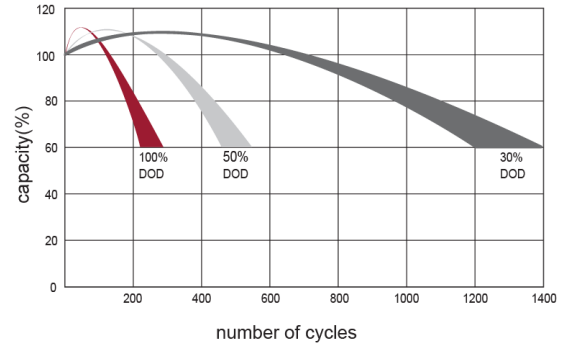
SBL 120-12i(sh)



EFFECT OF TEMPERATURE ON LONG TERM LIFE



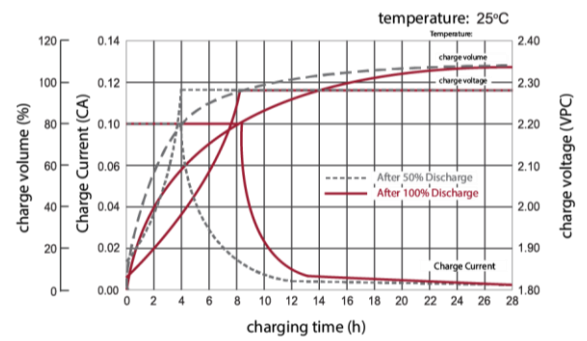
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



DISCHARGE CHARACTERISTICS CURVE



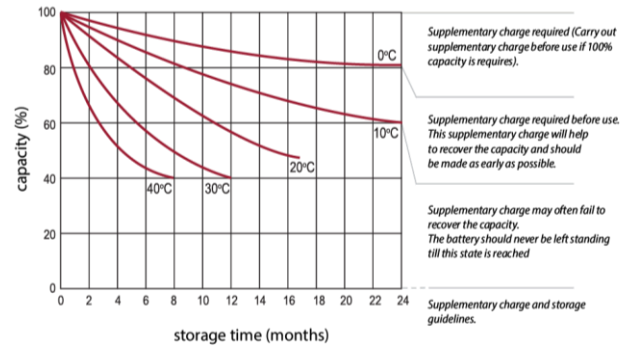
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



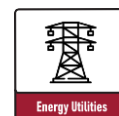
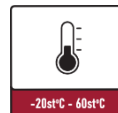
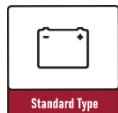
STORAGE CHARACTERISTICS



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.

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