

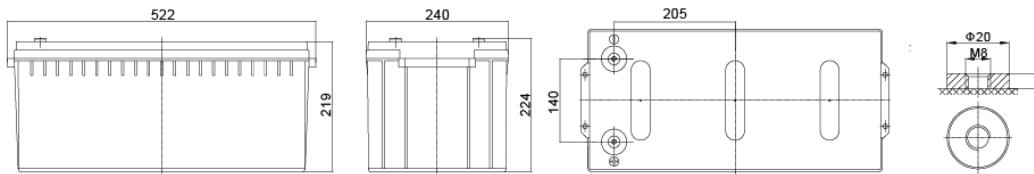


SBL 270-12HR



| | |
|---------------------|---------------------------------------------------------------|
| Nominal voltage | 12 V |
| Nominal capacity | 6118 W / 10min to 1,67 V/cell 240 Ah @ C20 to 1,75 V/cell |
| Technology | AGM (Absorbent Glass Mat) VRLA (Valve Regulated Lead Acid) |
| Weight | ~ 74 kg |
| Design life time | 15 years (standby use) Very Long Life acc. Eurobat |
| Internal resistance | ~ 2,6 mΩ (full charged) |

| | |
|-----------------------------|---------------------------------|
| Operating temperature range | Discharge -20°C ~ +60°C |
| | Charge 0°C ~ +50°C |
| | Storage -20°C ~ +60°C |
| Max. discharge current | 2400 (5 sec) |
| Short circuit current | 4200 A |
| Max. charging current | 72 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) |

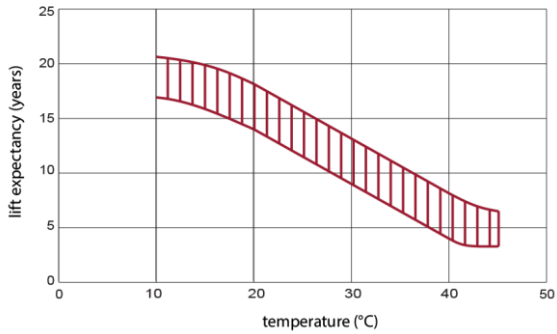
CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A at 25°C)

| Voltage/Time | 5 MIN | 8 MIN | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 60 MIN | 90 MIN |
|--------------|-------|-------|--------|--------|--------|--------|--------|--------|
| 1.60 V | 779,4 | 645,2 | 565,3 | 431,3 | 351,2 | 258,9 | 149,8 | 107,5 |
| 1.67 V | 707,2 | 591,6 | 522,5 | 402,2 | 330,1 | 244,9 | 142,9 | 103,1 |
| 1.70 V | 677,2 | 568,7 | 503,7 | 390,0 | 320,8 | 239,0 | 140,1 | 101,1 |
| 1.75 V | 625,2 | 529,7 | 472,2 | 368,9 | 304,8 | 228,9 | 135,2 | 98,0 |
| 1.80 V | 572,8 | 490,6 | 440,7 | 349,1 | 290,5 | 219,2 | 130,3 | 94,8 |
| 1.85 V | 491,7 | 417,9 | 373,4 | 300,2 | 252,1 | 193,9 | 117,7 | 86,4 |

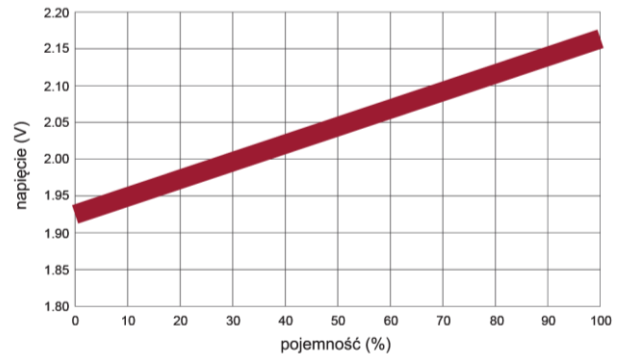
CONSTANT POWER DISCHARGE CHARACTERISTICS (W/cell at 25°C)

| Voltage/Time | 5 MIN | 8 MIN | 10 MIN | 15 MIN | 20 MIN | 30 MIN | 60 MIN | 90 MIN |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1.60 V | 1437,4 | 1212,5 | 1076,3 | 837,0 | 686,9 | 524,4 | 321,6 | 241,6 |
| 1.67 V | 1343,0 | 1148,5 | 1019,7 | 801,1 | 647,0 | 504,8 | 309,5 | 232,3 |
| 1.70 V | 1302,5 | 1121,4 | 994,4 | 785,6 | 630,3 | 496,2 | 304,1 | 227,9 |
| 1.75 V | 1245,6 | 1078,9 | 945,6 | 758,2 | 620,1 | 488,4 | 302,9 | 225,7 |
| 1.80 V | 1188,5 | 1036,8 | 896,7 | 730,7 | 610,5 | 480,3 | 301,2 | 223,4 |
| 1.85 V | 980,8 | 837,7 | 751,1 | 605,4 | 510,1 | 393,4 | 228,6 | 168,8 |

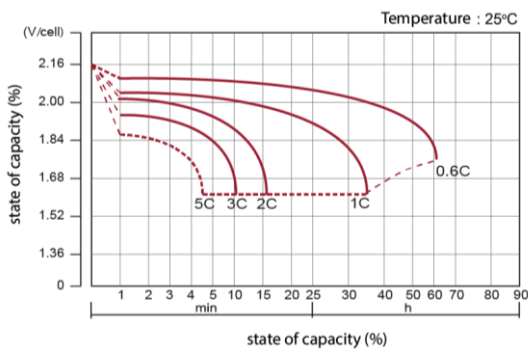
EFFECT OF TEMPERATURE ON LONG TERM LIFE



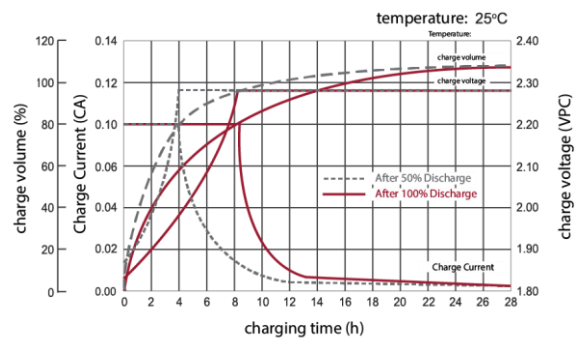
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



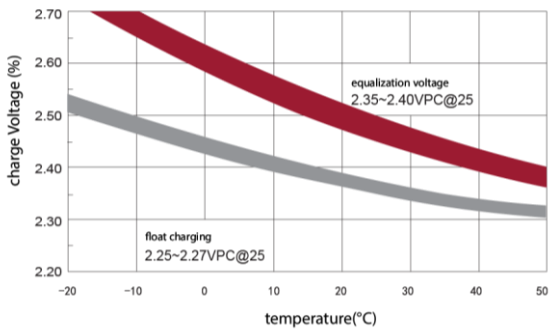
DISCHARGE CHARACTERISTICS CURVE



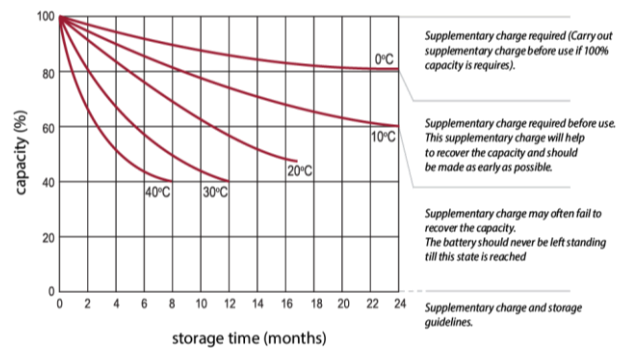
CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



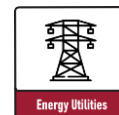
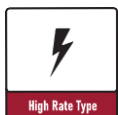
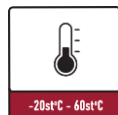
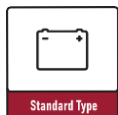
STORAGE CHARACTERISTICS



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



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