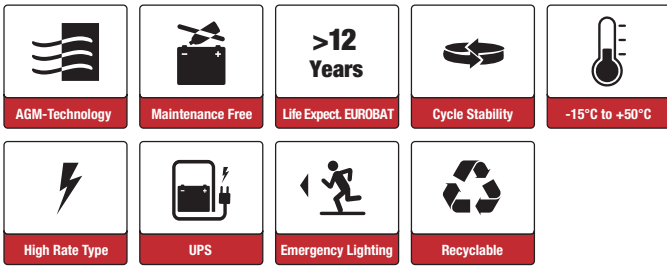




SBL270-12HR (12V7206W)



Applications

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Alarm and security system
- Communication power supply
- DC power supply



Certificates



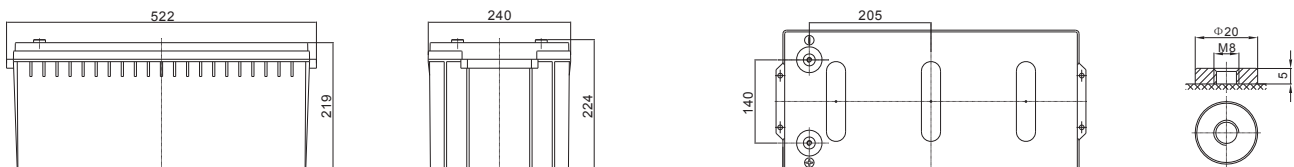
Specifications

| | | | |
|---|----------------------------------|-----------------------------------|---|
| Nominal Voltage | 12V | Operating Temp. Range | Discharge: -20~50°C |
| Nominal Capacity | 241.9Ah (C ₁₀ , 9.6V) | | Charge: -10~50°C |
| Approx. Weight | 72kg | | Storage: -20~50°C |
| Terminal | M8 | Cycle Use | Initial Charging Current less than 72A. |
| Container Material | ABS UL94 HB | | Voltage 14.7V +0.1V at 20°C. |
| Nominal Power | 5 min 8592.0W | | Temperature Coefficient -30mV/°C. |
| (20°C/ 9.6V/Block) | 10 min 7206.0W | Standby Use | No limit on Initial Charging Current. |
| | 15 min 6378.0W | | Voltage 13.7V +0.1V at 20°C. |
| Nominal Power | 5 min 1432W | | Temperature Coefficient -20mV/°C. |
| (20°C/ 1.6V/Cell) | 10 min 1063W | Capacity affected by Temp. | 40°C 103% |
| | 15 min 822.1W | | 25°C 100% |
| Max. Discharge Current | 2400A (5s) | | 0°C 86% |
| Internal Resistance / Impedance (1kHz) | Approx. 2.6mΩ | Self Discharge | SSB batteries may be stored for up to 6 months at 20°C and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Nominal Oper. Temp. R. | 20±3°C | Life Expectancy | >12 years according to EUROBAT |

Dimensions

■ M8 Terminal

Unit: mm | Dimensions: 522 Length X 240 Width X 219 Height (224 Height incl. Terminal)



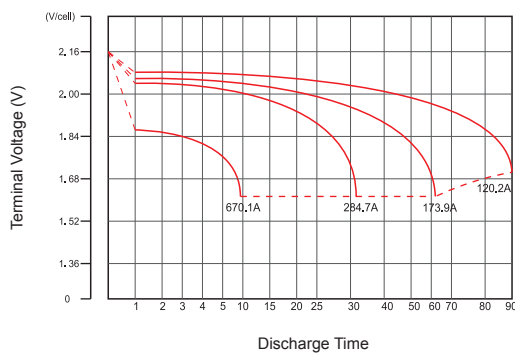
Constant Current Discharge (Amperes) at 20°C

| F.V/Time | 5min | 8min | 10min | 15min | 20min | 30min | 60min | 90min | 3h | 5h | 8h | 10h |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.6V | 779.4 | 645.2 | 565.3 | 431.3 | 351.2 | 258.9 | 149.8 | 107.5 | 63.96 | 43.85 | 29.30 | 24.19 |
| 10.0V | 707.2 | 591.6 | 522.5 | 402.2 | 330.1 | 244.9 | 142.9 | 103.1 | 63.11 | 43.35 | 29.01 | 23.96 |
| 10.2V | 677.2 | 568.7 | 503.7 | 390.0 | 320.8 | 239.0 | 140.1 | 101.1 | 61.98 | 42.67 | 28.61 | 23.66 |
| 10.5V | 625.2 | 529.7 | 472.2 | 368.9 | 304.8 | 228.9 | 135.2 | 98.0 | 60.47 | 41.78 | 28.09 | 23.25 |
| 10.8V | 572.8 | 490.6 | 440.7 | 349.1 | 290.5 | 219.2 | 130.3 | 94.8 | 58.50 | 40.59 | 27.39 | 22.71 |
| 11.1V | 491.7 | 417.9 | 373.4 | 300.2 | 252.1 | 193.9 | 117.7 | 86.4 | 55.91 | 39.04 | 26.48 | 21.20 |

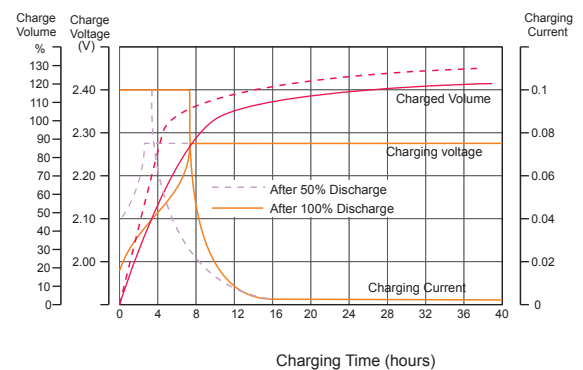
Constant Power Discharge (Watts/block) at 20°C

| F.V/Time | 5min | 8min | 10min | 15min | 20min | 30min | 60min | 90min | 3h | 5h | 8h | 10h |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9.6V | 8592.0 | 7206.0 | 6378.0 | 4932.6 | 4050.0 | 3018.0 | 1687.8 | 1221.0 | 743.96 | 514.80 | 348.51 | 289.62 |
| 10.0V | 7998.0 | 6762.0 | 6018.0 | 4680.0 | 3865.2 | 2893.8 | 1624.8 | 1180.2 | 738.56 | 511.48 | 346.07 | 287.47 |
| 10.2V | 7734.0 | 6558.0 | 5852.4 | 4570.8 | 3781.8 | 2835.6 | 1597.8 | 1163.4 | 727.12 | 504.56 | 341.82 | 283.99 |
| 10.5V | 7260.0 | 6198.0 | 5559.0 | 4373.4 | 3630.0 | 2742.0 | 1554.0 | 1132.2 | 712.52 | 495.66 | 336.18 | 279.44 |
| 10.8V | 6756.0 | 5819.4 | 5249.4 | 4179.0 | 3493.2 | 2646.0 | 1507.8 | 1101.6 | 691.92 | 483.30 | 328.63 | 273.27 |
| 11.1V | 5884.8 | 5026.2 | 4506.6 | 3632.4 | 3060.6 | 2360.4 | 1371.6 | 1012.8 | 664.34 | 466.33 | 318.37 | 265.10 |

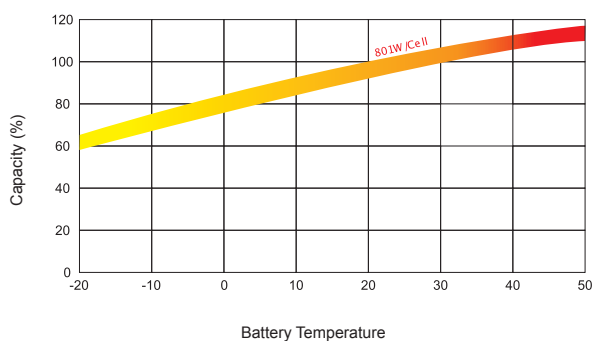
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

