

12SB140CL-FR 12Volt 141Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

| | | |
|--------------|------------------|---------|
| 20 hour rate | (7.07A to 9.9V) | 141.4Ah |
| 10 hour rate | (13.9A to 9.9V) | 139.0Ah |
| 5 hour rate | (24.6A to 9.60V) | 123.0Ah |
| 1 hour rate | (83.6A to 9.60V) | 83.6Ah |

Weight Approx . 43kg (94.6Lbs.)

Internal Resistance (at 1KHz) Approx. 5 m Ω

Maximum Discharge Current for 5 seconds: 1300A

Charging Methods at 25°C(77 °F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/°C/cell

Maximum Charging Current : 39A

Standby use:

Float Charging Voltage 13.50 to 13.80 V

Coefficient -3.0mv/°C/cell

Design Life 12 years

Operating Temperature Range

Charge -15 °C(5 °F) to 40 °C(104 °F)

Discharge -15 °C(5 °F) to 50 °C(122 °F)

Storage -15 °C(5 °F) to 40 °C(104 °F)

Charge Retention (shelf life) at 20 °C(68 °F)

1 month 98%

3 month 94%

6 month 85%

Case Material ABS

(UL94-V0 flame retardant case / cover)

Terminal F16

Description of torque value of hard ware for the terminals:

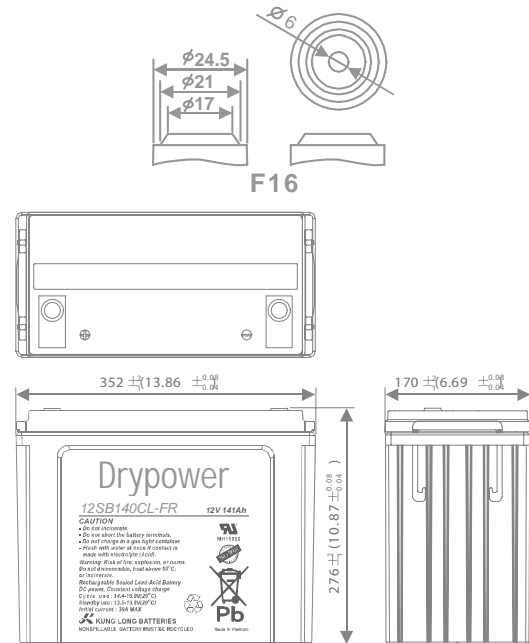
Recommended torque value M6: 5.39 N-m (55kg-cm)

Maximum allowable torque value M6: 8.82 N-m (90kg-cm)

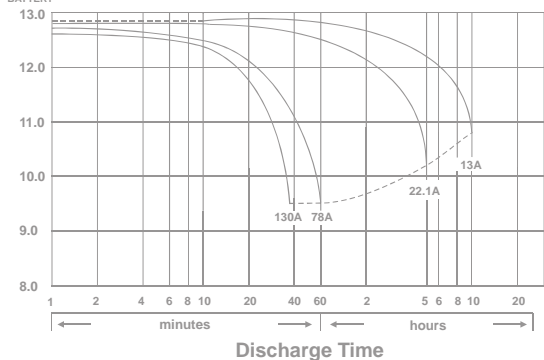


Dimensions

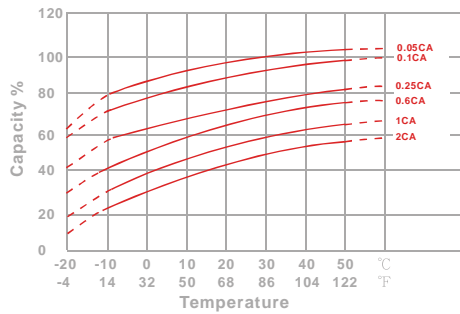
mm(inch)



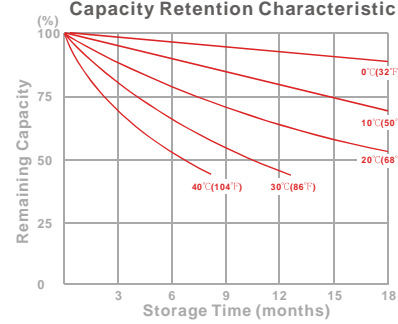
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



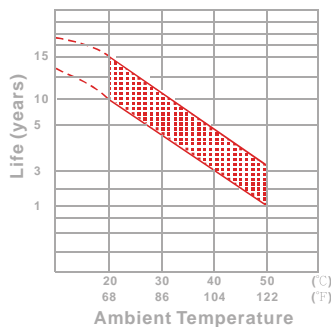
Effect of Temperature on Capacity 25°C(77°F)



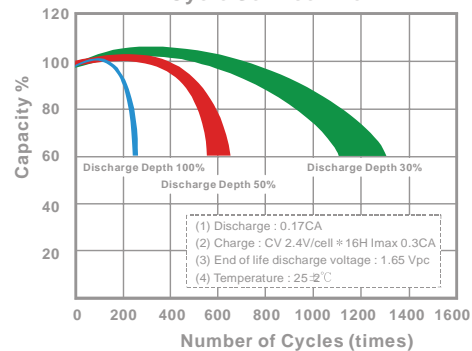
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | min | | | | | | | |
| 5 | min | 3281 | 3641 | 3910 | 4338 | 4439 | 4544 | 4738 |
| 10 | min | 2943 | 3179 | 3341 | 3494 | 3563 | 3635 | 3772 |
| 15 | min | 2402 | 2558 | 2682 | 2787 | 2839 | 2892 | 2979 |
| 30 | min | 1468 | 1540 | 1567 | 1629 | 1650 | 1674 | 1715 |
| 60 | min | 855 | 896 | 928 | 951 | 957 | 965 | 977 |
| 120 | min | 492 | 511 | 529 | 544 | 550 | 557 | 567 |
| 180 | min | 384 | 398 | 412 | 423 | 428 | 434 | 442 |
| 240 | min | 296 | 314 | 325 | 334 | 337 | 341 | 347 |
| 300 | min | 259 | 273 | 282 | 289 | 291 | 294 | 298 |
| 600 | min | 152 | 158 | 162 | 166 | 167 | 169 | 171 |
| 1200 | min | 78.1 | 81.2 | 83.3 | 85.2 | 85.9 | 86.7 | 86.8 |

- Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | min | | | | | | | |
| 5 | min | 289 | 362 | 394 | 419 | 429 | 441 | 459 |
| 10 | min | 236 | 265 | 292 | 311 | 320 | 329 | 345 |
| 15 | min | 182 | 211 | 232 | 247 | 252 | 258 | 266 |
| 30 | min | 113 | 128 | 136 | 143 | 146 | 149 | 154 |
| 60 | min | 57.8 | 66.4 | 73.5 | 78.9 | 80.1 | 81.4 | 83.6 |
| 120 | min | 37.4 | 42.4 | 44.7 | 46.6 | 47.3 | 48.1 | 49.4 |
| 180 | min | 29.3 | 32.5 | 34.4 | 35.7 | 36.2 | 36.9 | 37.9 |
| 240 | min | 23.7 | 25.8 | 27.1 | 28.0 | 28.3 | 28.7 | 29.2 |
| 300 | min | 21.1 | 22.4 | 23.3 | 23.9 | 24.1 | 24.3 | 24.6 |
| 600 | min | 12.4 | 13.0 | 13.3 | 13.6 | 13.7 | 13.9 | 14.0 |
| 1200 | min | 6.54 | 6.73 | 6.87 | 6.98 | 7.02 | 7.07 | 7.15 |

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)