

WP20-12IE 12Volt 20Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | |
|--------------|------------------|----------------|
| 20 hour rate | (1A to 10.50V) | 20Ah |
| 10 hour rate | (1.9A to 10.50V) | 19Ah |
| 5 hour rate | (3.4A to 10.20V) | 17Ah |
| 1 C | (20A to 9.60V) | 12.67Ah |
| 3 C | (60A to 9.60V) | 8Ah |

Weight **Approx. 6.08kg(13.38Lbs.)**

Internal Resistance (at 1KHz) **Approx. 10 mΩ**

Maximum Discharge Current for

5 seconds: **300A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **6A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

Coefficient -3.0mv/ /cell

Operating Temperature Range

Charge **-15 (5) to 40 (104)**

Discharge **-15 (5) to 50 (122)**

Storage **-15 (5) to 40 (104)**

Charge Retention (shelf life) at 20 (68)

1 month **92%**

3 month **90%**

6 month **80%**

Case Material **ABS**

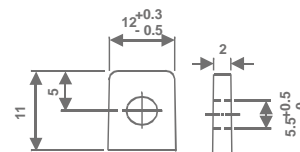
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F3**

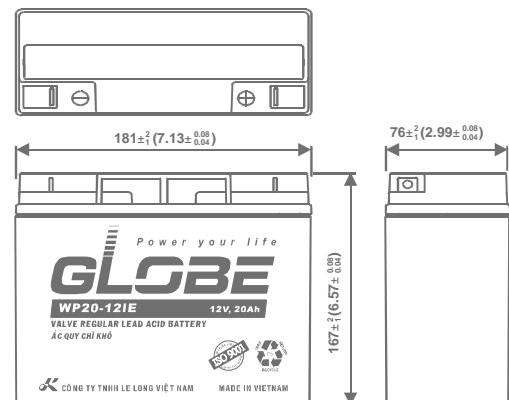


Dimensions

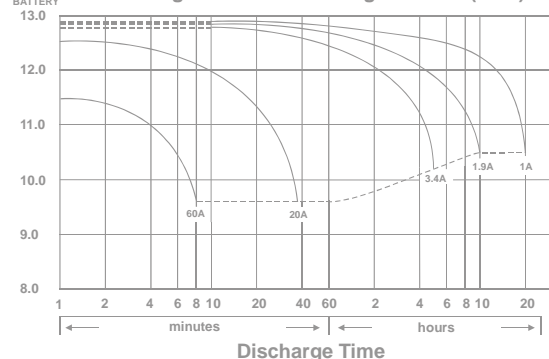
mm(inch)



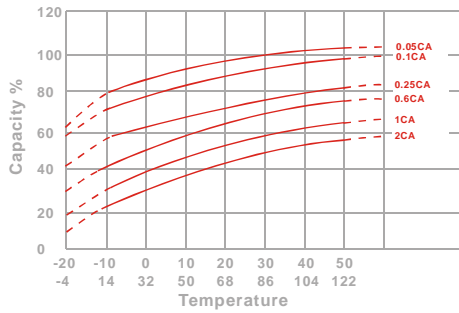
F3
(M5 Bolts)



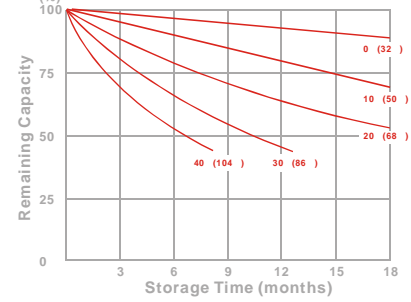
(v) FOR 12V BATTERY 13.0 Discharge Time VS. Discharge Current (25)



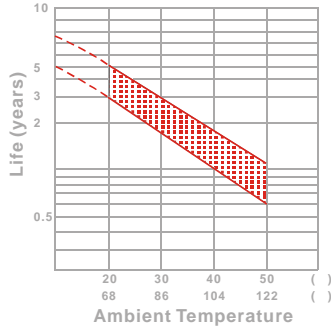
Effect of Temperature on Capacity 25 (77)



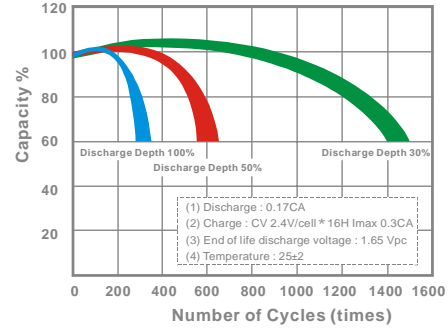
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 648 | 750 | 818 | 860 | 871 | 884 | 896 |
| 10 | min | 463 | 522 | 566 | 592 | 599 | 608 | 615 |
| 15 | min | 387 | 433 | 473 | 491 | 496 | 501 | 506 |
| 30 | min | 209 | 223 | 239 | 248 | 251 | 254 | 256 |
| 60 | min | 133 | 139 | 144 | 148 | 149 | 151 | 153 |
| 120 | min | 73.2 | 76.4 | 78.2 | 80.7 | 81.3 | 82.0 | 82.9 |
| 180 | min | 57.2 | 59.3 | 60.7 | 61.9 | 62.3 | 62.8 | 63.4 |
| 240 | min | 45.8 | 47.6 | 48.7 | 49.6 | 49.9 | 50.3 | 50.8 |
| 300 | min | 39.9 | 41.3 | 42.0 | 42.6 | 42.8 | 43.1 | 43.5 |
| 600 | min | 23.2 | 23.9 | 24.4 | 24.8 | 24.9 | 25.1 | 25.3 |
| 1200 | min | 12.3 | 12.7 | 13.0 | 13.2 | 13.3 | 13.4 | 13.5 |

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 68.2 | 73.9 | 77.5 | 80.7 | 82.0 | 83.4 | 85.8 |
| 10 | min | 45.8 | 48.9 | 51.4 | 53.5 | 54.4 | 55.4 | 57.0 |
| 15 | min | 34.7 | 37.3 | 39.0 | 40.5 | 41.1 | 41.7 | 42.6 |
| 30 | min | 18.5 | 20.0 | 21.1 | 22.0 | 22.2 | 22.6 | 23.2 |
| 60 | min | 11.1 | 11.7 | 12.2 | 12.6 | 12.7 | 12.9 | 13.1 |
| 120 | min | 6.25 | 6.47 | 6.61 | 6.73 | 6.77 | 6.82 | 6.89 |
| 180 | min | 4.73 | 4.90 | 5.00 | 5.08 | 5.11 | 5.15 | 5.21 |
| 240 | min | 3.88 | 3.97 | 4.04 | 4.09 | 4.11 | 4.14 | 4.17 |
| 300 | min | 3.41 | 3.48 | 3.53 | 3.57 | 3.58 | 3.60 | 3.62 |
| 600 | min | 1.97 | 2.00 | 2.02 | 2.04 | 2.05 | 2.06 | 2.07 |
| 1200 | min | 1.00 | 1.03 | 1.05 | 1.07 | 1.08 | 1.09 | 1.10 |

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

The tolerance range : X<6min(+15%~-15%), 6min X<10min(+12%~-12%), 10min X < 60min(+8%~-8%), X 60min(+5%~-5%)

261112-1B-V



CÔNG TY TNHH LELONG VIỆT NAM

40 Bà Chánh Thâu, KP2, Thị Trấn Bến Lức Huyện Bến Lức, Tỉnh Long An
 Cụm Công Nghiệp Đức Mỹ, Xã Đức Hòa Đông, Huyện Đức Hòa, Tỉnh Long An

TEL:+84-72-3872213
 TEL:+84-72-3779666

FAX:+84-72-3872350
 FAX:+84-72-3779476