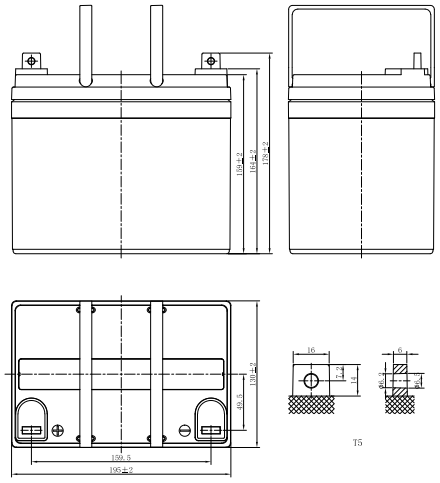
# KB12350-M6 12V 35Ah



## CHARACTERISTICS

| Item | | Specifications |
|---|---|---|
| Rated Voltage | | 12V |
| Nominal Capacity (25˚C) | $C_{20}$,1.75V/cell | 35Ah |
| Dimension | Length | 195mm (7.68inches) |
| | Width | 130mm (5.12inches) |
| | Container Height | 164mm (6.46inches) |
| | Total Height | 178mm (7.01inches) |
| Approx Weight | | 10.7kg (23.6lbs) |
| Terminal | | T5 |
| Container Material | | ABS (UL94 HB or V-0 optional) |
| Short-circuit current | | 875A |
| Internal Resistance (25˚C) | | Approx 10 mΩ (Fully charged) |
| Operating Temp. Range | Discharge | -15~50˚C (5~122°F) |
| | Charge | -20~40˚C (-4~104°F) |
| | Storage | -15~40˚C (5~104°F) |
| Nominal Operating Temp. Range | | 25±3˚C (77±5°F) |
| Max.Charging Current (25˚C) | | 0.3C |
| Charge voltage (25˚C) | Standby Use | Cycle Use |
| | 2.25-2.30V/cell | 2.35-2.45V/cell |
| Temp. Coeffcient | -3mV/cell/˚C | -5mV/cell/˚C |
| Effect of temp. to Capacity | 40˚C (104°F) | 103% |
| | 25˚C (77°F) | 100% |
| | 0˚C (32°F) | 86% |
| Self Discharge | ≤3% per month at 25°C (77°F). KB series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |

## DISCHARGE TABLE

| Constant Current Discharge (Amperes) at 25°C (77°F) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 114.4 | 78.5 | 60.4 | 48.8 | 36.0 | 26.3 | 21.5 | 15.7 | 12.3 | 8.74 | 6.89 | 5.86 | 5.02 | 3.96 | 3.23 | 1.71 |
| 1.80V/cell | 123.1 | 83.2 | 63.4 | 50.8 | 37.1 | 27.0 | 22.1 | 16.0 | 12.5 | 8.89 | 6.99 | 5.95 | 5.10 | 4.01 | 3.28 | 1.73 |
| 1.75V/cell | 129.7 | 86.5 | 65.5 | 52.2 | 38.0 | 27.6 | 22.5 | 16.3 | 12.7 | 9.03 | 7.08 | 6.02 | 5.16 | 4.06 | 3.31 | 1.75 |
| 1.70V/cell | 135.8 | 90.0 | 67.7 | 53.7 | 39.0 | 28.2 | 22.9 | 16.6 | 12.9 | 9.16 | 7.18 | 6.11 | 5.22 | 4.10 | 3.34 | 1.76 |
| 1.67V/cell | 140.5 | 92.5 | 69.3 | 54.8 | 39.7 | 28.6 | 23.3 | 16.8 | 13.0 | 9.25 | 7.25 | 6.16 | 5.27 | 4.13 | 3.37 | 1.78 |
| 1.60V/cell | 149.0 | 96.4 | 71.7 | 56.5 | 40.8 | 29.4 | 23.8 | 17.2 | 13.3 | 9.42 | 7.38 | 6.26 | 5.34 | 4.19 | 3.41 | 1.80 |
| **Constant Power Discharge (Watts/cell) at 25°C (77°F)** | | | | | | | | | | | | | | | | |
| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
| 1.85V/cell | 216.5 | 149.3 | 115.6 | 94.1 | 69.5 | 51.0 | 41.9 | 30.6 | 24.0 | 17.2 | 13.6 | 11.6 | 9.93 | 7.84 | 6.43 | 3.42 |
| 1.80V/cell | 230.6 | 157.2 | 120.6 | 97.3 | 71.3 | 52.2 | 42.8 | 31.2 | 24.4 | 17.4 | 13.7 | 11.7 | 10.1 | 7.95 | 6.51 | 3.46 |
| 1.75V/cell | 240.3 | 162.3 | 123.8 | 99.5 | 72.9 | 53.1 | 43.5 | 31.6 | 24.8 | 17.7 | 13.9 | 11.9 | 10.2 | 8.03 | 6.57 | 3.50 |
| 1.70V/cell | 249.2 | 167.7 | 127.2 | 101.8 | 74.4 | 54.1 | 44.1 | 32.1 | 25.1 | 17.9 | 14.1 | 12.0 | 10.3 | 8.10 | 6.63 | 3.53 |
| 1.67V/cell | 255.7 | 171.4 | 130.0 | 103.7 | 75.5 | 54.8 | 44.7 | 32.4 | 25.3 | 18.0 | 14.2 | 12.1 | 10.4 | 8.16 | 6.68 | 3.56 |
| 1.60V/cell | 266.0 | 176.4 | 133.5 | 106.3 | 77.2 | 55.8 | 45.5 | 33.0 | 25.7 | 18.3 | 14.4 | 12.3 | 10.5 | 8.27 | 6.75 | 3.59 |

# KB12350-M6 12V 35Ah

## APPLICATIONS

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

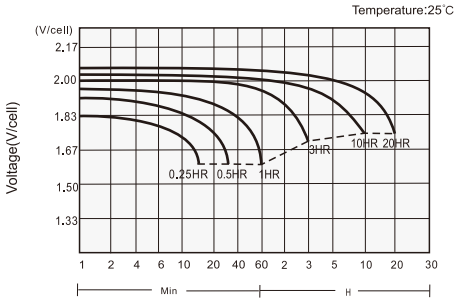
## GENERAL FEATURES

- 5 years design life (25˚C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

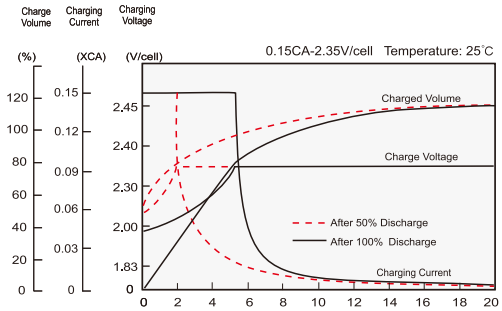
## STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL,CE Approved
- Manufactured under ISO 45001, ISO 9001, and ISO 14001 standards.

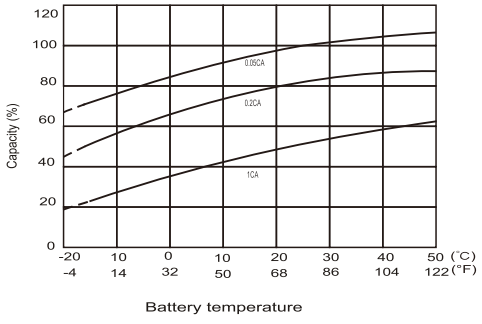
## Discharge Characteristics




## Charging Characteristics




## Effects of Temperature on Capacity




## Self Discharge Characteristics

