



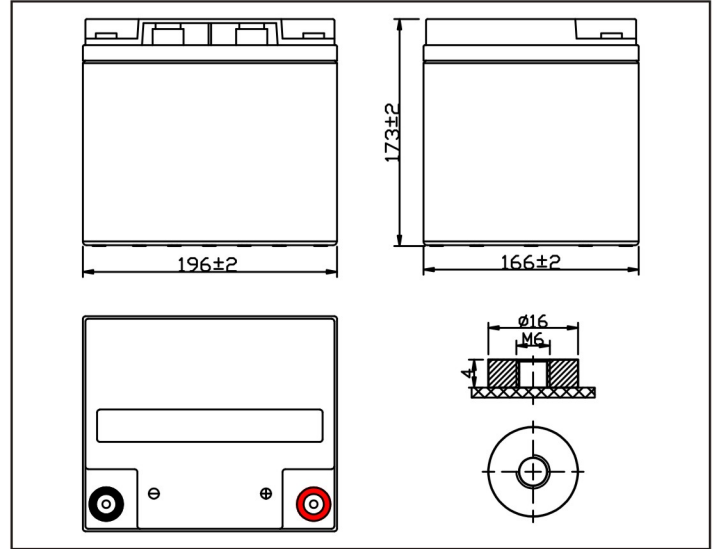
INDUSTRIAL BATTERY - VRLA-AGM BATTERY - SMALL SERIES

MODEL: EG40-12



Plane Chart:

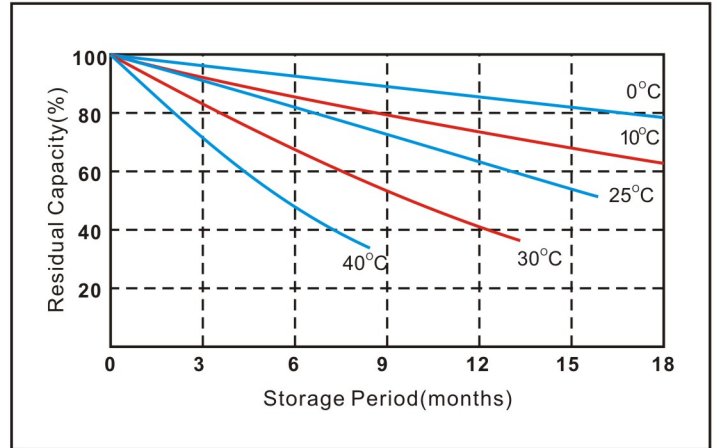
Unit:(mm) Terminal type:(T1)



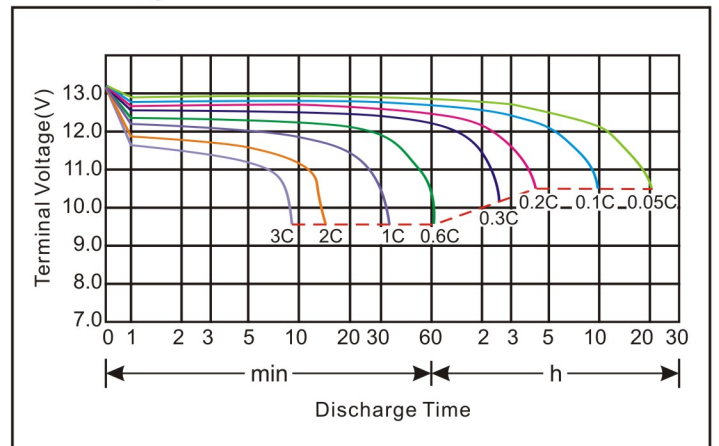
Parameter Chart:

| Volts | | 12V | |
|----------------------------------|-------------------------------------|--|--|
| Capacity(25°C) | 20 hours rate (2.0A) | 40Ah | |
| Discharge Current Testing (25°C) | 20 I ₂₀ rate (40A,27min) | 35min | |
| | 60 I ₂₀ rate (120A,7min) | 8min | |
| Internal Resistance | Full Charged Battery 25°C | 9mΩ | |
| Design Life(25°C) | 10 years | | |
| Capacity Affected By Temperature | 40°C | 104% | |
| | 25°C | 100% | |
| | 0°C | 83% | |
| | -15°C | 65% | |
| Residual Capacity (25°C) | Capacity After 3 Months Storage | 91% | |
| | Capacity After 6 Months Storage | 82% | |
| | Capacity After 12 Months Storage | 65% | |
| Charge (Constant Voltage) | Cycle (25°C) | Initial Charging Current Less Than 12A Voltage 14.5~14.9V | |
| | Float (25°C) | Charge Voltage 13.6~13.8V | |
| Weight (Approx) | | 12.6Kg | |

Residual Capacity



Discharge Current 25°C

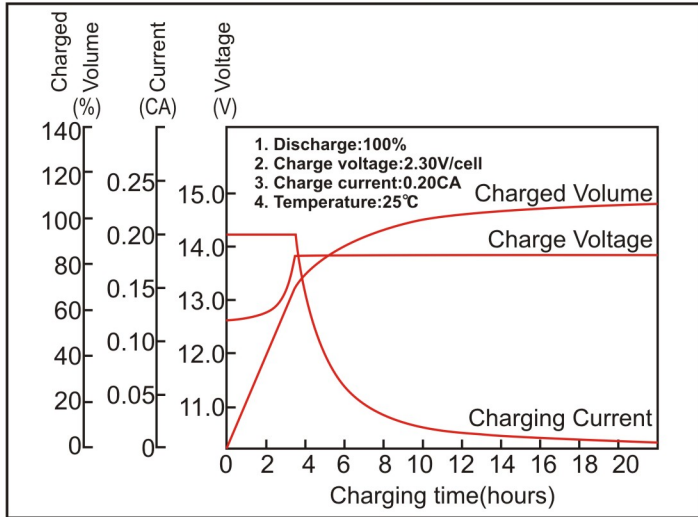


★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

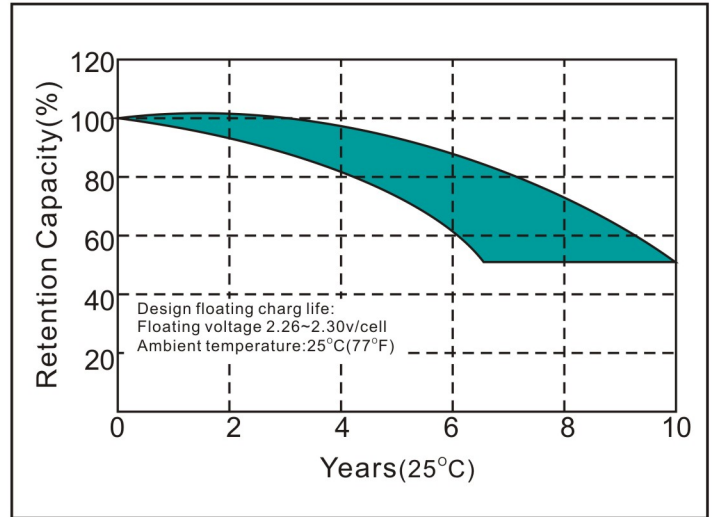


MODEL: EG40-12

Constant voltage charging characteristics



Float Life



Constant Current Discharge Characteristics (A, 25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|
| 9.60V | 120.2 | 80.0 | 62.8 | 40.0 | 23.9 | 13.9 | 9.9 | 7.0 | 4.6 | 4.0 | 2.1 |
| 10.2V | 114.2 | 76.0 | 60.3 | 38.0 | 23.0 | 13.7 | 9.7 | 6.9 | 4.6 | 3.9 | 2.1 |
| 10.5V | 110.7 | 73.6 | 58.8 | 37.0 | 22.4 | 13.6 | 9.6 | 6.8 | 4.6 | 3.8 | 2.0 |
| 10.8V | 107.2 | 71.4 | 57.3 | 36.1 | 21.8 | 13.4 | 9.5 | 6.7 | 4.5 | 3.8 | 2.0 |

Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/Time | 10min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 9.60V | 1259.5 | 863.7 | 689.4 | 443.9 | 273.5 | 160.5 | 116.2 | 82.3 | 55.0 | 46.2 | 24.3 |
| 10.2V | 1196.4 | 820.6 | 662.3 | 426.9 | 262.5 | 158.2 | 114.2 | 81.0 | 54.5 | 45.7 | 24.1 |
| 10.5V | 1160.3 | 796.1 | 645.8 | 415.8 | 256.0 | 157.0 | 113.2 | 80.2 | 54.2 | 45.5 | 24.0 |
| 10.8V | 1124.2 | 771.5 | 629.3 | 404.8 | 249.5 | 155.2 | 112.2 | 79.4 | 53.7 | 45.3 | 23.9 |

Capacity Factors With Different Temperature

| Battery Type | | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|-----|-------|-------|-----|-----|------|------|------|------|------|------|
| Battery | 12V | 50% | 70% | 83% | 85% | 90% | 98% | 100% | 102% | 104% | 105% |

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.