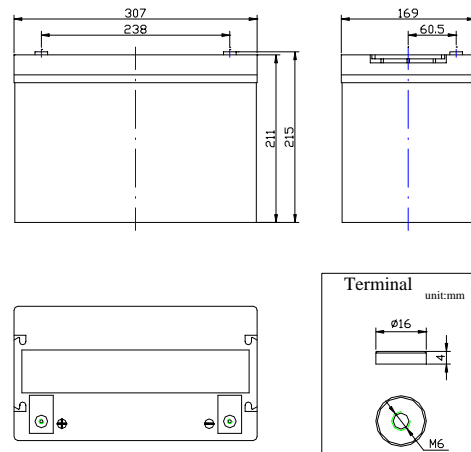


HGL90-12



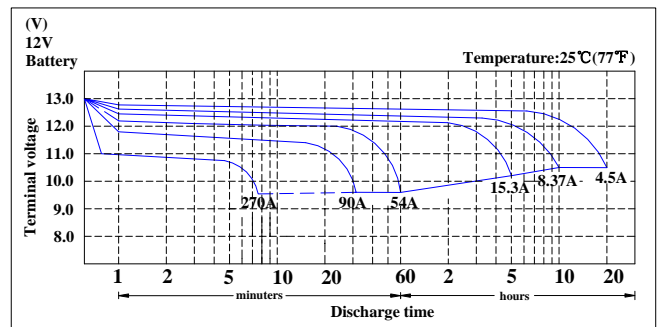
Specifications

| | | |
|-------------------------------|-------------------------------|--------------------------|
| Nominal Voltage | | 12V |
| Rated Capacity (20 hour rate) | | 90AH |
| Dimension | Total Height (with terminals) | 215mm(8.46 inches) |
| | Height | 211mm(8.31 inches) |
| | Length | 307mm(12.09inches) |
| | Width | 169mm(6.65inches) |
| Weight | | Approx.28.2kg (62.04lbs) |

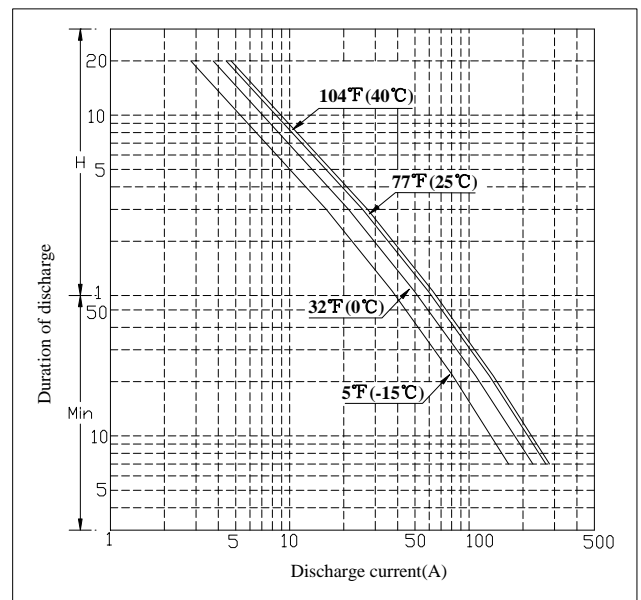
Characteristics

| | | |
|---|-----------------------------------|-------------------------|
| Capacity 77°F (25°C) | 20 hour rate (4.5A to 10.5Volts) | 90AH |
| | 10 hour rate (8.37A to 10.5Volts) | 83.7AH |
| | 5 hour rate (15.3A to 10.2Volts) | 76.5AH |
| | 1 hour rate (54A to 9.6Volts) | 54AH |
| Internal Resistance | Full charged 77°F (25°C) | 5.3m Ω |
| Standard Terminal | M6 | |
| Capacity affected by Temperature (20 hour rate) | 104°F (40°C) | 102% |
| | 77°F (25°C) | 100% |
| | 32°F (0°C) | 85% |
| | 5°F (-15°C) | 65% |
| Self-Discharge 77°F (25°C) | Capacity after 3 month storage | 91% |
| | Capacity after 6 month storage | 82% |
| | Capacity after 12 month storage | 64% |
| Max. Discharge Current 77°F (25°C) | 1000A (5s) | |
| Maximum Charge Current(A) | 18A | |
| Charging (Constant Voltage) | Cycle | 14.5V~14.9V/77°F (25°C) |
| | Float | 13.6V~13.8V/77°F (25°C) |
| Temperature compensation coefficient of charging voltage (mV/°C/cell) | Cycle | -4mV/°C/cell |
| | Float | -3mV/°C/cell |

Discharge characteristics 77°F (25°C)



Duration of discharge vs. Discharge current



Constant Current Discharge Rating Amperes @ 77°F (25°C)

| Cut off voltage V/cell | 15M | 30M | 45M | 1H | 2H | 3H | 5H | 8H | 10H | 12H | 20H | 24H |
|------------------------|-----|-----|-----|------|------|------|------|-------|------|------|------|------|
| 1.75V | 143 | 89 | 64 | 51.8 | 29.5 | 22.1 | 15.0 | 10.24 | 8.37 | 7.13 | 4.50 | 3.77 |

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

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