

## FLG 12-42

### PHYSICAL SPECIFICATION

|  |                     |          |
|--|---------------------|----------|
| Nominal Voltage  | 12V                 |          |
| Nominal Capacity (20Hr)                                      | 42Ah                |          |
| Dimension  | Length              | 198 ±2mm |
|  | Width               | 166 ±2mm |
|  | Container Height    | 170 ±2mm |
|  | Total Height        | 170 ±2mm |
| Drawing 400328-0   | Weight 13,5 Kg ± 5% |          |
| Standard Terminal  | Bolt Type: M6       |          |
|  |                     |          |
| <p>Bolt-and-nut terminal<br/>Bolt Type:M6</p> <p>(in mm)</p> |                     |          |

### ELECTRICAL SPECIFICATION

| Characteristics   |              | Discharge curves @ 25° C (77 °F)   |
|---|--------------|--|
| Capacity  | 20 hour rate | 42,00Ah  |
|   | 10 hour rate | 37,00Ah  |
|   | 5 hour rate  | 32,00Ah  |
|   | 3 hour rate  | 28,50Ah  |
|   | 1 hour rate  | 19,42Ah  |
| Capacity affected by temperature  | 40°C         | 102%   |
|   | 20°C         | 100%   |
|   | 0°C          | 85%  |
| Internal Resistance 10,5 mΩ ±10%  |              | SCC 1050 A ±10%  |
| Constant Voltage Charge   | Cycle        | Initial Charging Current less than 10 A<br>Voltage 14,4~15,0V at 20°C<br>Temperature Coefficient -30 mV/°C |
|   | Standby      | No limit on Initial Charging Current<br>Voltage 13,5~13,8V at 20°C<br>Temperature Coefficient -20 mV/°C    |
| <p>Discharge Characteristics(25°C/77 °F)</p> <p>Graph showing Loading Voltage (V) vs Discharge Time (min/h) for various current rates: 12.6A, 8.4A, 4.2A, 25.2A, 10.5A, 7.14A, 3.78A, 2.1A.</p> |              |  |

### Constant Current(Amp) and Constant Power (Watt/Cell) Discharge Table at 25° C

| Time  |   | 5min   | 15min  | 30min | 60min | 90min | 120min | 180min | 300min | 480min | 600min |
|-------|---|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 9.9V  | A | 55,99  | 39,71  | 27,79 | 23,51 | 18,63 | 15,75  | 9,52   | 6,53   | 4,50   | 3,89   |
|       | W | 147,95 | 111,22 | 73,30 | 47,12 | 38,17 | 28,76  | 18,94  | 13,01  | 9,73   | 8,14   |
| 10.2V | A | 50,88  | 39,30  | 26,96 | 19,31 | 15,30 | 12,93  | 9,50   | 6,50   | 4,48   | 3,83   |
|       | W | 143,90 | 107,67 | 71,02 | 45,66 | 36,99 | 27,87  | 18,83  | 12,93  | 9,67   | 8,13   |
| 10.8V | A | 40,87  | 34,23  | 25,62 | 18,86 | 14,94 | 12,63  | 9,39   | 6,40   | 4,41   | 3,70   |
|       | W | 135,11 | 101,58 | 67,00 | 43,08 | 34,89 | 26,29  | 18,46  | 12,68  | 9,48   | 7,97   |





**12V-42Ah/20Hr**

**FINAL VOLTAGE 10,8V**

Engineered in Italy made in PRC

**CAUTION**

- \* Don't short circuit battery terminal.
- \* Ventilate when charging in an enclosed space.
- \* Don't discharge completely.
- \* If exposed to electrolyte <acid>, wash immediately with plenty of water.

# FLG 12-42

## SEALED RECHARGEABLE BATTERY

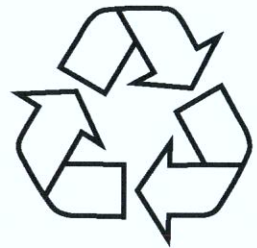
*CONSTANT VOLTAGE CHARGE (AT 20 °C)*

*STANDBY USE: 13.6V-13.8V*

*CYCLE USE: 14.7V-15.0V*

*INITIAL CURRENT 12.6A MAX.*

**NONSPILLABLE**



**Pb**

Sealed Lead Battery  
Must Be Recycled Or  
Disposed Of Properly