

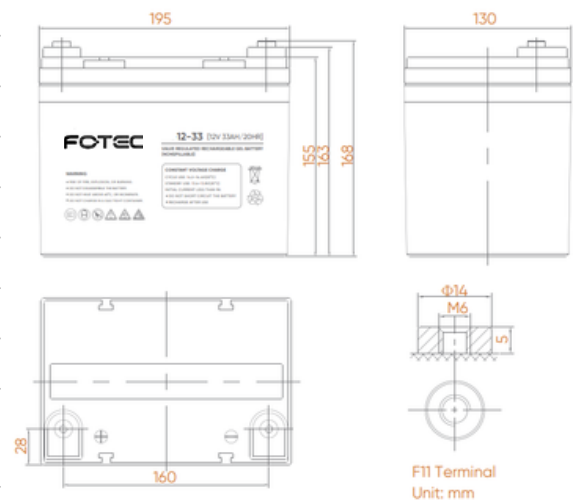
### JB Deep Cycle 12V 33 Ah 43701010001

#### Deep Cycle Gel Valve Regulated Lead Acid Battery

DG (Deep Cycle GEL ) series is pure GEL battery with 20 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and can deliver 450 cycles at 100% DOD.

#### Specification

|                                    |                                                                                                                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cells Per Unit                     | 6                                                                                                                                                                                                                   |
| Voltage Per Unit                   | 12                                                                                                                                                                                                                  |
| Capacity                           | 33Ah@20hr-rate to 1.75V per cell @25°C                                                                                                                                                                              |
| Weight                             | Approx. 10.2 Kg (Tolerance ±3.0%)                                                                                                                                                                                   |
| Internal Resistance                | Approx. 9.5 mΩ                                                                                                                                                                                                      |
| Terminal                           | F7(M8) / F11(M6)                                                                                                                                                                                                    |
| Max. Discharge Current             | 330A (5 sec)                                                                                                                                                                                                        |
| Design Life                        | 12 years (floating charge)                                                                                                                                                                                          |
| Maximum Charging Current           | 9.0 A                                                                                                                                                                                                               |
| Reference Capacity                 | C3: 22.5AH<br>C5: 26.0AH<br>C10: 28.9AH<br>C20: 33.0AH                                                                                                                                                              |
| Float Charging Voltage             | 13.6V ~ 13.8V @25°C Temperature Compensation: -3mV/°C/Cell                                                                                                                                                          |
| Cycle Use Voltage                  | 14.2V ~ 14.4V @25°C Temperature Compensation: -4mV/°C/Cell                                                                                                                                                          |
| Operating Temperature Range        | Discharge: -40°C~60°C<br>Charge: -20°C~50°C<br>Storage: -40°C~60°C                                                                                                                                                  |
| Normal Operating Temperature Range | 25°C ± 5°C                                                                                                                                                                                                          |
| Self Discharge                     | Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using. |
| Container Material                 | A.B.S. UL94-HB, UL94-V0 Optional                                                                                                                                                                                    |



Length  
**195±2mm (7.68 inches)**

Width  
**130±2mm (5.12 inches)**

Height  
**155±2mm (6.10 inches)**

Total Height  
**168±2mm (6.61 inches)**

Terminal M5 Value  
**6-7 N\*m**

Terminal M6 Value  
**8-10 N\*m**

Terminal M8 Value  
**10-12 N\*m**

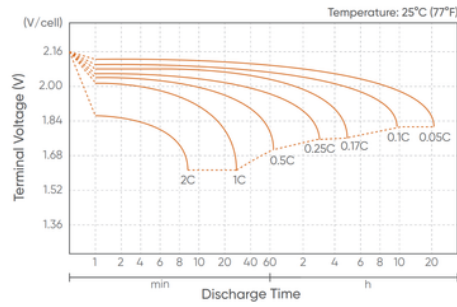
#### Constant Current Discharge Characteristics: A (25°C)

| F.V/Time | 10MIN | 15MIN | 30MIN | 1HR   | 2HR   | 3HR  | 4HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 61.17 | 47.86 | 31.47 | 18.45 | 11.03 | 7.62 | 6.31 | 5.31 | 3.63 | 3.01 | 1.82 |
| 1.65V    | 58.20 | 46.88 | 30.95 | 18.36 | 10.95 | 7.59 | 6.28 | 5.28 | 3.60 | 2.98 | 1.75 |
| 1.70V    | 56.15 | 46.15 | 30.68 | 18.19 | 10.87 | 7.53 | 6.25 | 5.25 | 3.57 | 2.95 | 1.70 |
| 1.75V    | 52.42 | 44.45 | 30.75 | 18.02 | 10.78 | 7.50 | 6.19 | 5.19 | 3.54 | 2.92 | 1.65 |
| 1.80V    | 48.37 | 41.45 | 30.51 | 17.60 | 10.59 | 7.30 | 6.05 | 5.09 | 3.48 | 2.89 | 1.55 |
| 1.85V    | 43.73 | 37.61 | 28.84 | 16.72 | 10.12 | 6.98 | 5.76 | 4.88 | 3.33 | 2.81 | 1.49 |

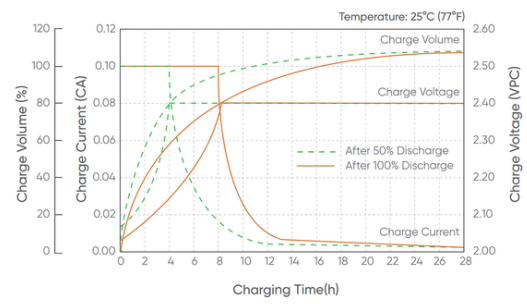
#### Constant Power Discharge Characteristics : WPC (25°C)

| F.V/Time | 10MIN | 15MIN | 30MIN | 1HR  | 2HR  | 3HR  | 4HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V    | 109   | 87.0  | 58.9  | 35.5 | 21.7 | 15.1 | 12.5 | 10.6 | 7.22 | 6.00 | 3.21 |
| 1.65V    | 105   | 85.6  | 58.2  | 35.4 | 21.6 | 15.1 | 12.5 | 10.5 | 7.19 | 5.96 | 3.15 |
| 1.70V    | 102   | 84.6  | 58.3  | 35.2 | 21.4 | 15.0 | 12.5 | 10.5 | 7.14 | 5.90 | 3.10 |
| 1.75V    | 96.5  | 81.7  | 58.5  | 34.9 | 21.3 | 15.0 | 12.4 | 10.4 | 7.08 | 5.85 | 3.04 |
| 1.80V    | 90.0  | 76.3  | 58.1  | 34.2 | 21.0 | 14.6 | 12.1 | 10.2 | 6.96 | 5.79 | 2.98 |
| 1.85V    | 82.4  | 69.5  | 55.3  | 32.7 | 20.2 | 14.0 | 11.5 | 9.75 | 6.67 | 5.61 | 2.80 |

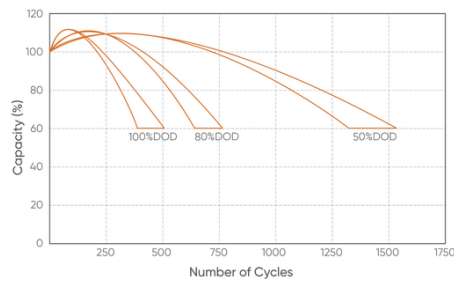
Discharge Characteristics Curve



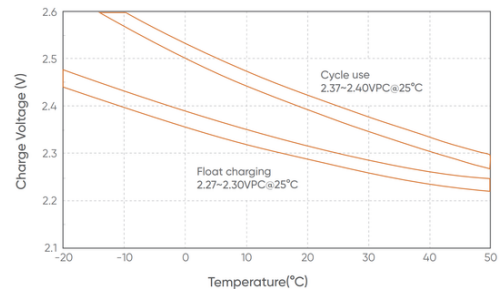
Charge Characteristic Curve for Cycle Use (IU)



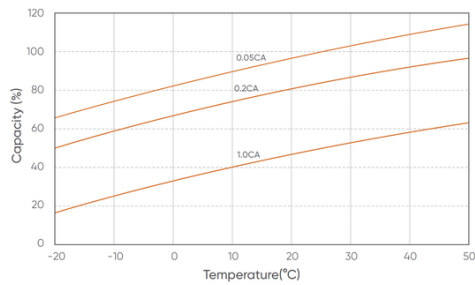
Discharge Characteristics Curve



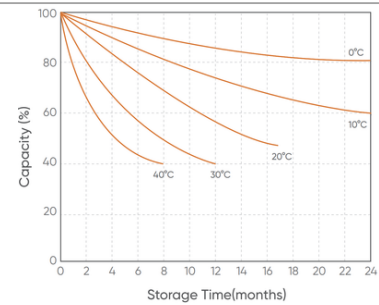
Charge Characteristic Curve for Cycle Use (IU)



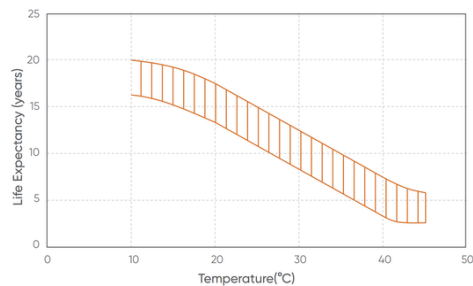
Discharge Characteristics Curve



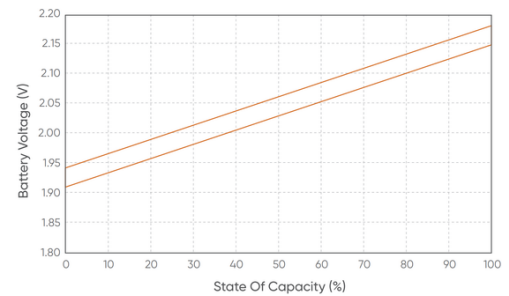
Charge Characteristic Curve for Cycle Use (IU)



Discharge Characteristics Curve



Charge Characteristic Curve for Cycle Use (IU)



## PRODUCT AND PRODUCTION FACILITY CERTIFICATES



- EN IEC 61000-6-3:2021
- EN IEC 61000-6-1:2019
- EN 61000-3-32:13+A2:2021+AC:2022
- EN IEC 61000-3-2:2019+A1:2021

- TS 10002:2018
- TS EN ISO 14001:2015
- TS EN ISO 9001:2015
- TS ISO/IEC 20000-1:2013
- TS ISO 45001:2018
- TSS0001:2018 GREEN IT
- TS180001:2007 - OHSAS 18001



Please read the safety and installation instructions.  
Visit [www.fotec.com.tr](http://www.fotec.com.tr)  
You can request the printed version.

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