

EURONET

ECO-SERIES

AFFORDABLE GEL BATTERY

MODELS

E-ECS12100

E-ECS12150

E-ECS12200



Model	E-ECS12100	E-ECS12150	E-ECS12200
Voltage	12V	12V	12V
Capacity	100Ah	150Ah	200Ah
Weight	~25kg	~40kg	~55kg
Max Discharge	800A (5s)	1000A (5s)	900A (5s)
Internal Resistance	~4.2mΩ	~2.2mΩ	~3.2mΩ
Float Charge Voltage	13.50-13.80V	13.50-13.80V	13.50-13.80V
Max Charge Current	20A	37.5A	43.5A
Terminal Type	T14	T14	T9 / T14

Applications



Backup Power System



System for Home Use



Telecom Base Station



Construction



Farming & Agricultural



Industrial Factory



Industries & Camps



Telecom & Data Centres

Why Choose Euronet Gel Batteries?

- Reliability: Engineered for consistent performance in demanding conditions.
- Versatility: Suitable for a wide range of applications.
- Safety: Sealed design with flame-retardant materials.
- Efficiency: Low internal resistance and high discharge capability.

Dimensions

- **EU-12/100-ECS:** 330mm x 225mm x 172mm
- **EU-12/150-ECS:** 485mm x 240mm x 172mm
- **EU-12/200-ECS:** 522mm x 236mm x 238mm

E-ECS12100



Sealed Rechargeable Gel Battery

12V 100AH



SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Capacity	80Ah@10hr-rate to 1.75V per cell@25°C
Weight	Approx.25.0kg
Max.Discharge Current	800A (5sec)
Internal Resistance	Approx. 4.2mΩ
Operating Temperature Range	Discharge: -40°C~50°C Charge: -20°C~50°C Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25°C
Max.Charging Current	20.0A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25°C
Self Discharge	Batteries can be stored for more than 6 month at 25°C. Charge batteries before using. For high temp, the time interval will be shorter.
Terminal	T14
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	268.7	184.5	133.1	80.4	58.9	45.0	20.4	13.9	8.26	4.30
1.65V/cell	257.8	167.1	130.2	79.0	58.2	44.6	20.3	13.8	8.20	4.20
1.70V/cell	234.0	161.3	128.4	78.4	57.5	44.2	20.2	13.7	8.10	4.16
1.75V/cell	211.3	148.5	124.7	77.8	55.7	44.0	20.0	13.6	8.00	4.10
1.80V/cell	192.2	137.9	115.7	73.2	55.1	41.8	19.0	13.0	7.00	3.80

Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	443.5	304.9	240.2	152.5	115.0	87.9	43.5	26.9	16.0	8.40
1.65V/cell	425.0	303.0	238.7	147.8	114.0	87.1	43.1	26.8	15.8	7.96
1.70V/cell	397.3	295.7	234.1	144.8	110.9	86.6	42.8	26.6	15.7	7.92
1.75V/cell	369.6	277.2	218.7	137.1	109.9	85.7	42.7	26.5	15.6	7.90
1.80V/cell	332.6	258.7	206.4	135.5	106.8	81.5	39.6	25.3	13.7	7.44

All mentioned values are average values.

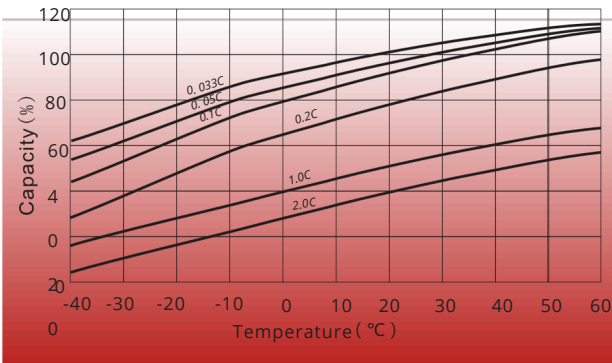
Version No.: 12-202402

E-ECS12100

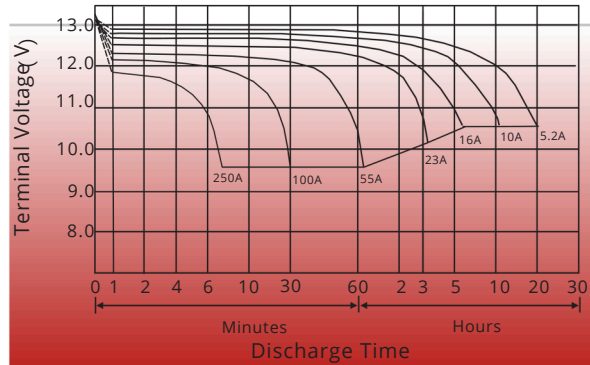


Sealed Rechargeable Gel Battery

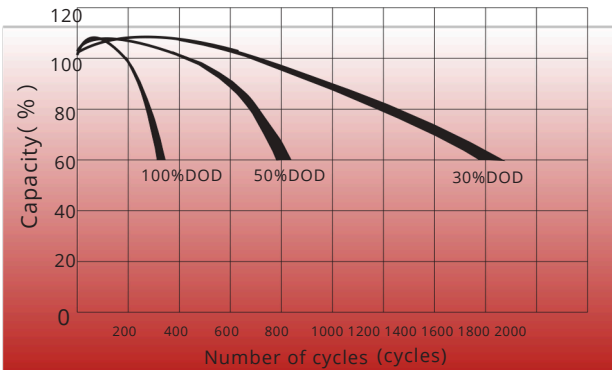
TEMPERATURE EFFECTS CURVE



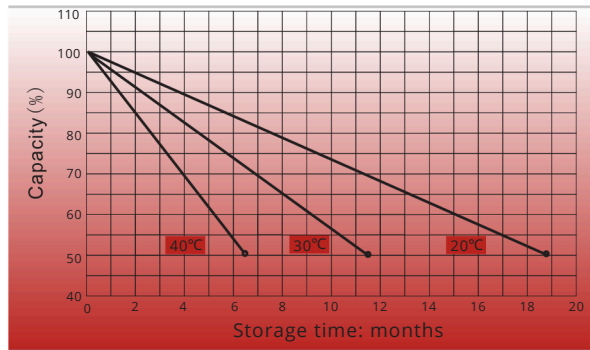
DISCHARGE TIME VS D.ISCHARGE CURRENT 25(°C)



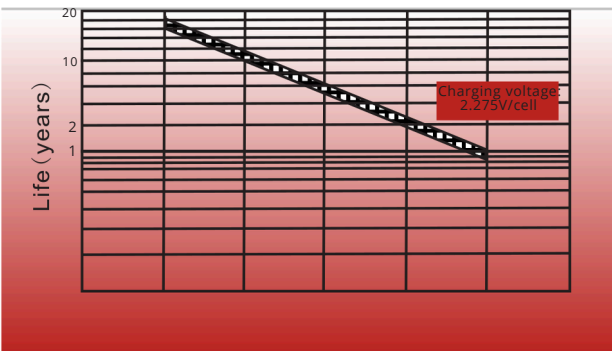
LIFE CHARACTERISTICS OF CYCLIC USE



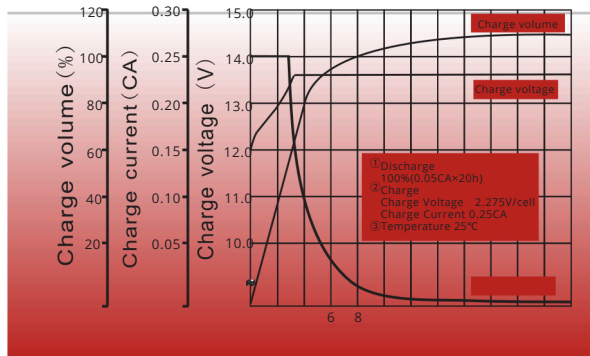
SELF-DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

Application	Charge Voltage(V/cell)		Max.Charge Current
	Temperature	SetPoint AllowableRange	
Cycle Use	25°C	2.475 2.45~2.50	0.25C
Standby Use	25°C	2.275 2.25~2.30	

Discharge Current VS Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.7	1.6	1.3
Discharge Current(A)	0.2C > (A)	0.2C < (A)	0.5C < (A)	1.0C < (A)

Charge the batteries at least once every 6 months, if they are stored at 25°C.

Charging Method

Constant Voltage	14.7~15.0V, 5~11h, Max. Current 0.25CA
Constant Current	0.1CA × 5h
Fast	0.25CA × 1.7h

E-ECS12150



Sealed Rechargeable Gel Battery

12V 150AH



SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80V per cell@25°C
Weight	Approx.40kg
Max.Discharge Current	1000A (5sec)
Internal Resistance	Approx.2.2mΩ
Operating Temperature Range	Discharge: -40°C~50°C Charge: -20°C~50°C Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25°C
Max.Charging Current	37.5A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25°C
Self Discharge	Batteries can be stored for more than 6 month at 25°C. Charge batteries before using. For high temp, the time interval will be shorter.
Terminal	T14
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	422.3	300.4	216.8	131.0	95.8	84.4	38.3	25.9	15.5	8.0
1.65V/cell	405.1	272.1	212.1	128.6	94.8	83.6	38.1	25.9	15.4	7.9
1.70V/cell	367.7	262.6	209.0	127.7	93.7	82.9	37.9	25.5	15.3	7.8
1.75V/cell	332.1	241.8	203.1	126.7	90.7	82.5	37.5	25.5	15.2	7.7
1.80V/cell	302.0	224.6	188.5	119.1	89.7	78.4	35.6	24.4	15.0	7.6

Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	697.0	479.2	377.5	239.6	180.6	164.8	81.6	50.4	30.0	15.8
1.65V/cell	667.9	476.2	375.1	232.3	179.1	163.2	80.7	50.3	29.6	15.4
1.70V/cell	624.4	464.6	367.8	227.5	174.2	162.4	80.3	49.9	29.4	15.1
1.75V/cell	580.8	435.6	343.6	215.4	172.7	160.8	80.0	49.7	29.2	14.8
1.80V/cell	522.7	406.6	324.3	213.0	167.8	152.8	74.3	47.4	28.7	14.0

All mentioned values are average values.

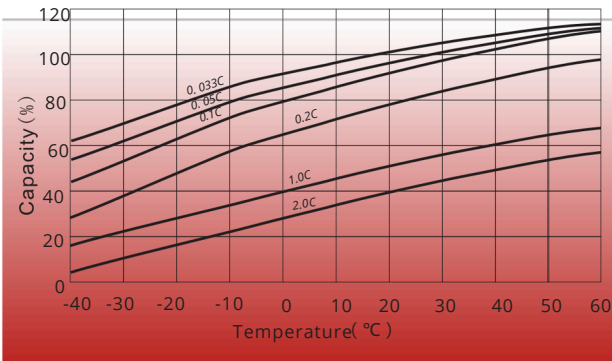
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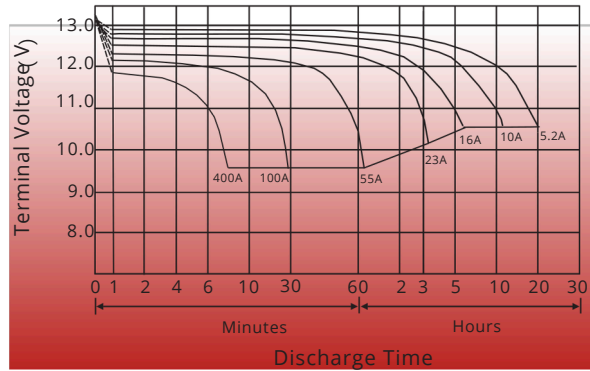


Sealed Rechargeable Gel Battery

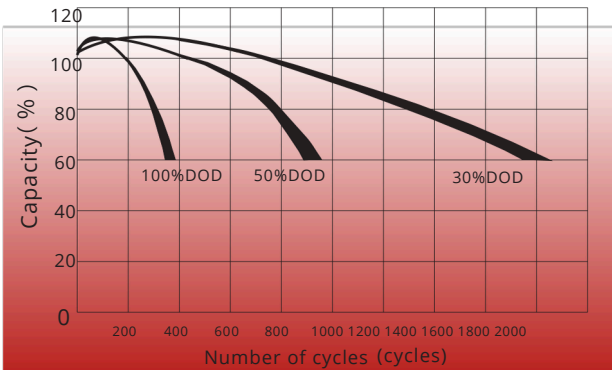
TEMPERATURE EFFECTS CURVE



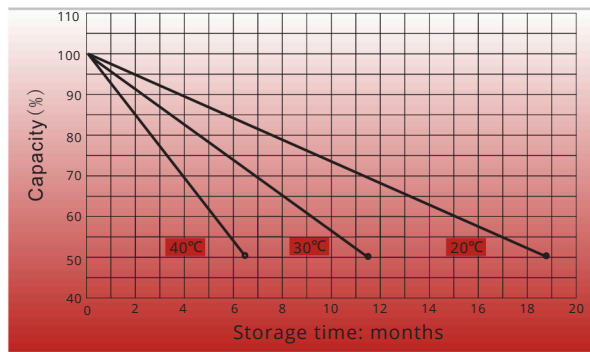
DISCHARGE TIME VS D.ISCHARGE CURRENT 25(°C)



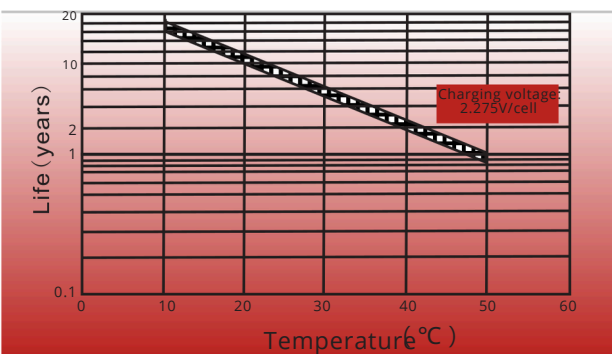
LIFE CHARACTERISTICS OF CYCLIC USE



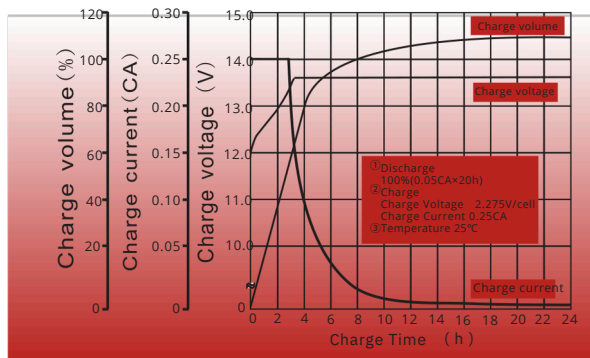
SELF-DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

Application	Charge Voltage(V/cell)		Max.Charge Current
	Temperature	SetPoint AllowableRange	
Cycle Use	25°C	2.475 2.45~2.50	0.25C
Standby Use	25°C	2.275 2.25~2.30	

Discharge Current VS Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.7	1.6	1.3
Discharge Current(A)	0.2C > (A)	0.2C < (A)	0.5C 0.5C < (A)	< 1.0C (A) > 1.0C

Charge the batteries at least once every 6 months, if they are stored at 25°C.

Charging Method

Constant Voltage	14.7~15.0V, 5~11h, Max. Current 0.25CA
Constant Current	0.1CA x 5h
Fast	0.25CA x 1.7h

E-ECS12200



Sealed Rechargeable Gel Battery

12V 200AH



SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@10hr-rate to 1.80V per cell@25°C
Weight	Approx.60kg
Max.Discharge Current	900A (5sec)
Internal Resistance	Approx. 3.2mΩ
Operating Temperature Range	Discharge: -40°C~50°C Charge: -20°C~50°C Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25°C
Max.Charging Current	43.5A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25°C
Self Discharge	Batteries can be stored for more than 6 month at 25°C. Charge batteries before using. For high temp, the time interval will be shorter.
Terminal	T9 / T14
Constainer Material	ABS(UL94-HB) Flammability resistance of UL94-V0 is available on request.

Constant Current Discharge Characteristics Unit: A(25°C,77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h
1.60V/cell	197.5	140.5	111.0	65.4	48.1	38.7	32.4	22.1	18.2	9.38	4.05
1.65V/cell	187.6	135.0	107.4	63.3	46.6	37.8	31.9	22.0	17.8	9.29	4.00
1.70V/cell	178.3	129.6	103.0	61.6	45.3	37.0	31.2	21.6	17.7	9.19	3.97
1.75V/cell	168.8	124.0	98.9	60.0	44.3	36.1	30.7	21.3	17.5	9.11	3.94
1.80V/cell	160.6	118.7	95.3	57.7	42.9	35.2	30.0	20.9	17.3	8.95	3.88

Constant Power Discharge Characteristics Unit: W(25°C,77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h
1.60V/cell	359.0	260.0	208.2	123.7	91.7	74.1	62.4	42.6	35.2	18.4	8.15
1.65V/cell	343.4	251.2	202.5	120.4	89.2	72.7	61.4	42.2	34.9	18.3	8.07
1.70V/cell	329.2	243.2	195.6	117.6	87.1	71.3	60.5	41.7	34.5	18.1	7.99
1.75V/cell	313.4	233.5	188.4	114.8	85.4	69.7	59.7	41.2	34.2	17.9	7.91
1.80V/cell	300.7	225.7	182.3	111.0	83.0	68.2	58.4	40.7	34.0	17.7	7.87

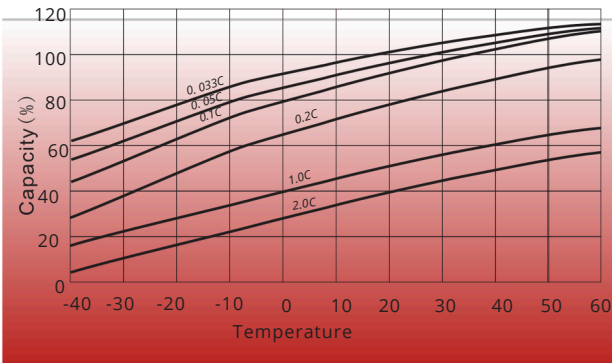
All mentioned values are average values.

E-ECS12200

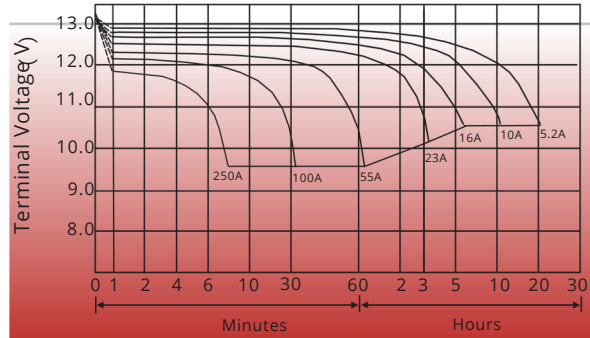


Sealed Rechargeable Gel Battery

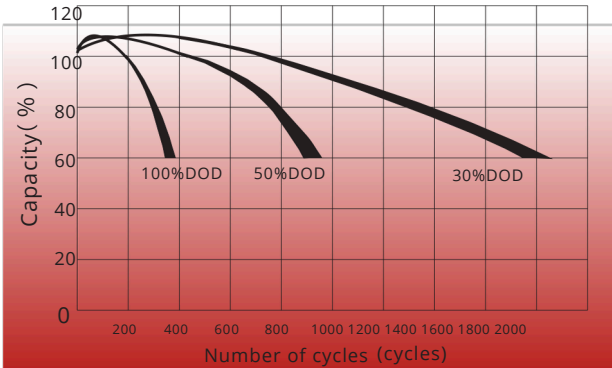
TEMPERATURE EFFECTS CURVE



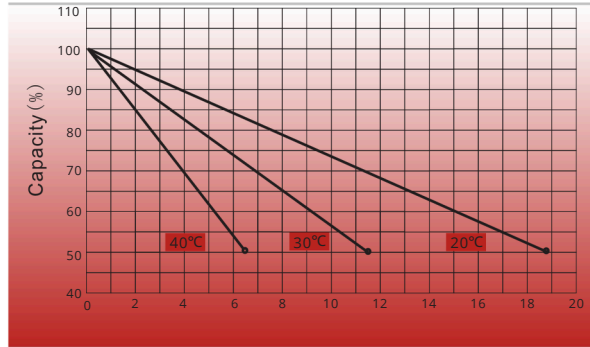
DISCHARGE TIME VSD.ISCHARGE CURRENT 25(°C)



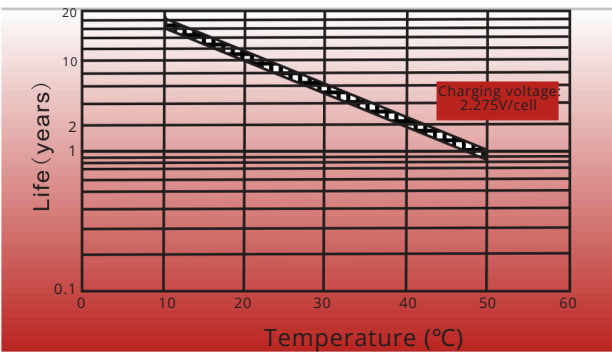
LIFE CHARACTERISTICS OF CYCLIC USE



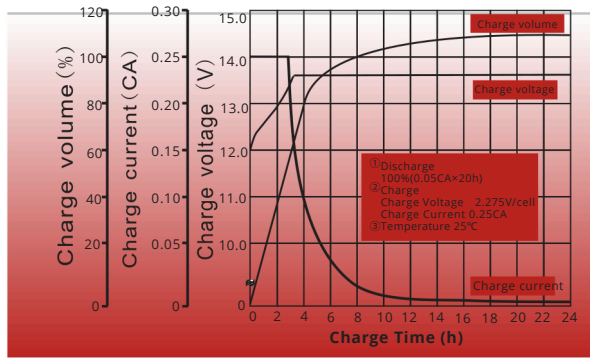
SELF-DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

Application	Charge Voltage (V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.475	2.45~2.50	0.25C
Standby Use	25°C	2.275	2.25~2.30	

Discharge Current VS Discharge Voltage

Final Discharge Voltage (V/cell)	1.75	1.7	1.6	1.3
Discharge Current (A)	0.2C > (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

Charge the batteries at least once every 6 months, if they are stored at 25°C.

Charging Method

Constant Voltage	4.7~15.0V, 5~11h, Max. Current 0.25CA
Constant Current	0.1CA × 5h
Fast	0.25CA × 1.7h

GEL BATTERY



The Future of Energy Storage!

Experience unmatched efficiency, durability, and performance with our brand-new GEL BATTERY. Designed for long-lasting power, deep cycle applications, and zero maintenance, this advanced battery ensures maximum reliability in residential, commercial, and industrial energy storage solutions.

Key Highlights:

- ✓ **High-Capacity Storage** – Built for extended backup power.
- ✓ **Deep Cycle Performance** – Optimized for long life and sustainability.
- ✓ **Zero Maintenance** – Hassle-free operation with superior durability.
- ✓ **Eco-Friendly Design** – Supporting a greener, cleaner future.

Now Available! Contact Us to Get More!

GEL BATTERY