EURONET

EURONET

BLUE

GEL BATTERY

MODELS

E-BLUE12100

E-BLUE12150

E-BLUE12200

E-BLUE12250

WWW.EURONETWORLD.COM

Version No.: 11-202402

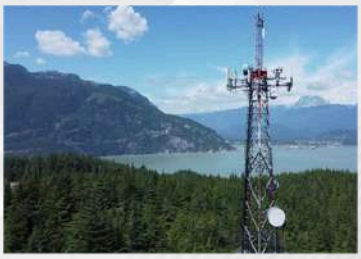
Key Features

- **High Capacity**: Ranging from 100Ah to 250Ah, ensuring long-lasting power.
- **Wide Temperature Range:**
  - Discharge: -40°C to 50°C
  - Charge: -20°C to 50°C
  - Storage: -20°C to 50°C
- **Low Self-Discharge**: Can be stored for over 6 months at 25°C.
- **High Discharge Current**: Up to 1200A (5 sec.) for high-power applications.
- **Low Internal Resistance**: Ensures efficient power delivery.
- **Maintenance-Free**: Sealed design with gel electrolyte for hassle-free operation.
- **Durable Construction**: ABS container with UL94-HB flammability resistance (UL94-V0 available on request).

Applications


Backup Power System


System for Home Use


Telecom Base Station


Construction


Farming & Agricultural


Industrial Factory


Industries & Camps


Telecom & Data Centres

Model	E-BLUE12100	E-BLUE12150	E-BLUE12200	E-BLUE12250
Voltage	12V	12V	12V	12V
Capacity	100Ah	150Ah	200Ah	250Ah
Weight	~30kg	~45kg	~60kg	~69kg
Max Discharge	800A (5s)	1000A (5s)	1200A (5s)	1200A (5s)
Internal Resistance	~3.5mΩ	~2.2mΩ	~2.6mΩ	~2.2mΩ
Float Charge Voltage	13.50-13.80V	13.50-13.80V	13.50-13.80V	13.50-13.80V
Max Charge Current	25A	37.5A	50A	62.5A
Terminal Type	T14	T14	T9 / T14	T9 / T14

GEL **BATTERY**

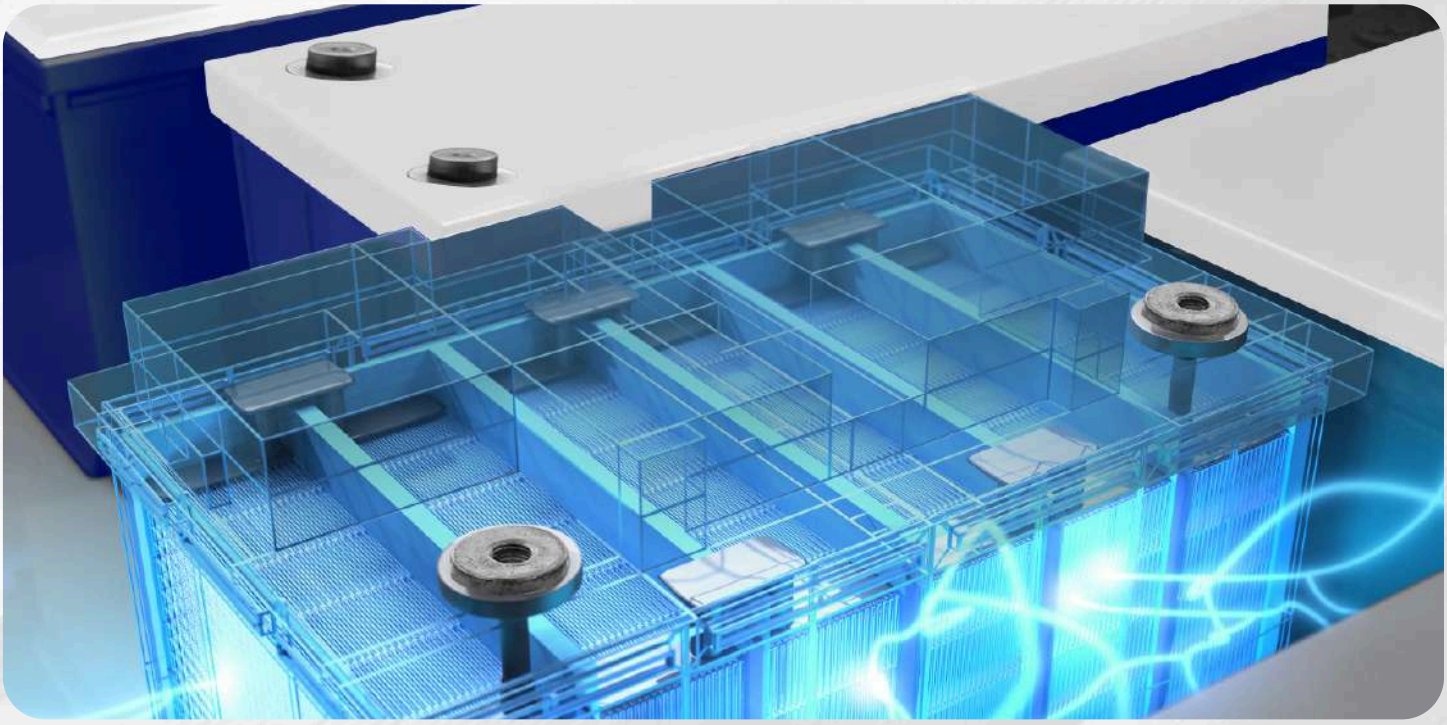
Advanced Gel Technology for Reliable Power **Solutions**

Specific Features

- Deep-Cycle Capability: Designed for frequent charge-discharge cycles, perfect for daily energy storage.
- High Charge Acceptance: Efficiently captures solar energy even in low-light conditions.
- Temperature Resilience: Performs reliably in extreme temperatures, making it suitable for outdoor solar installations.
- Long Cycle Life: Up to 2000 cycles at 50% Depth of Discharge, ensuring years of reliable service.
- Low Maintenance: No water topping required, reducing operational costs.

Dimensions

- **E-BLUE12100:** 330mm x 225mm x 172mm
- **E-BLUE12150:** 485mm x 240mm x 172mm
- **E-BLUE12200:** 522mm x 236mm x 238mm
- **E-BLUE12250:** 522mm x 236mm x 268mm



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.

Sealed Rechargeable **Gel Batteries**

Version No.: 11-202402

E-BLUE12100

Sealed Rechargeable Gel Battery

12V 100AH

SPECIFICATIONS

Cells Per Unit	6
VoltagePerUnit	12
Capacity	100Ah@10hr-rate to 1.75V per cell@25℃
Weight	Approx.30kg
Max.DischargeCurrent	800A (5sec)
Internal Resistance	Approx. 3.5mΩ
Operating Temperature Range	Discharge: -40℃～50℃ Charge: -20℃～50℃ Storage: -20℃～50℃
Normal Operating Temperature Range	25℃±5℃
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25℃
Max.ChargingCurrent	25.0A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25℃
Self Discharge	Batteries can be stored for more than 6 month at 25℃. 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℃,77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	307. 1	210.8	152.1	91.9	67.3	56.3	25.5	17.3	10.3	5.38
1.65V/cell	294. 6	191.0	148.8	90.3	66.5	55.8	25.4	17.2	10.2	5.30
1.70V/cell	267. 4	184.3	146.7	89.6	65.7	55.3	25.3	17.1	10.1	5.25
1.75V/cell	241. 5	169.7	142.6	88.9	63.6	55.0	25.0	17.0	10.0	5.20
1.80V/cell	219. 6	157.6	132.3	83.6	63.0	52.3	23.8	16.3	8.8	4.75

Constant Power Discharge Characteristics Unit:W(25℃,77℉)

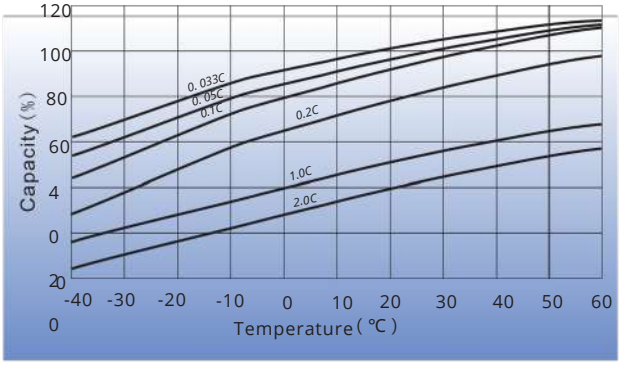
F.V/Tim e	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	506.9	348.5	274.6	174.2	131.4	109.9	54.4	33.6	20.0	10.5
1.65V/cell	485.8	346.3	272.8	169.0	130.2	108.8	53.8	33.6	19.8	10.0
1.70V/cell	454.1	337.9	267.5	165.4	126.7	108.3	53.5	33.3	19.6	9.90
1.75V/cell	422.4	316.8	249.9	156.6	125.6	107.2	54.4	33.2	19.5	9.88
1.80V/cell	380.2	295.7	235.8	154.9	122.1	101.9	49.5	31.6	17.2	9.30

All mentioned values are average values.

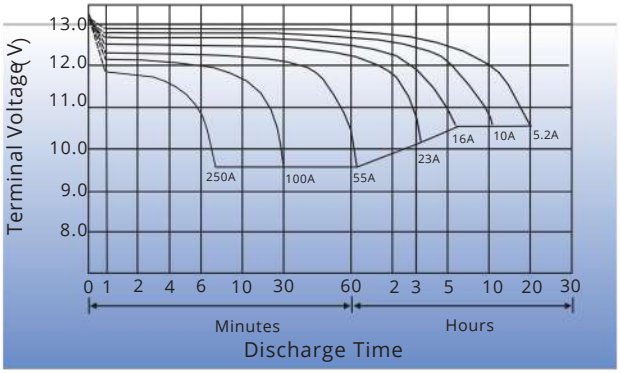
E-BLUE12100

Sealed Rechargeable Gel Battery

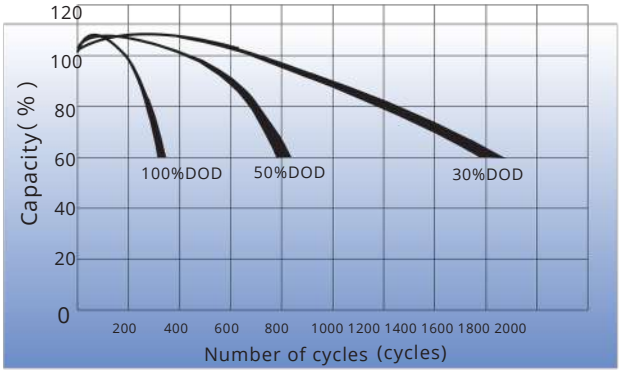
TEMPERATURE EFFECTS CURVE



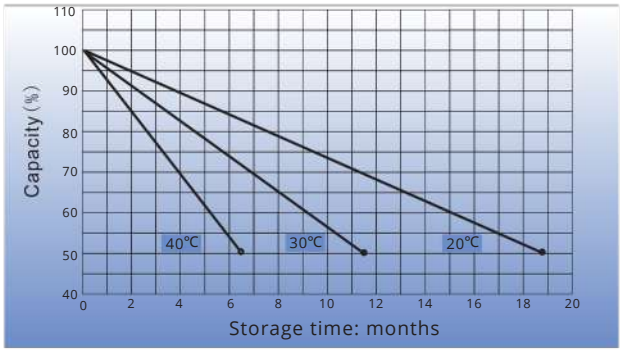
DISCHARGE TIME VS D.ISCHARGECURRENT 25(℃)



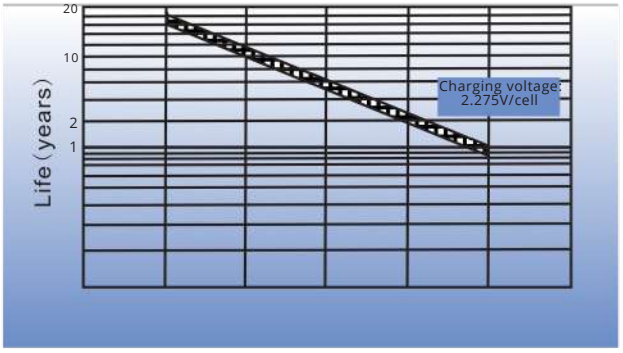
LIFE CHARACTERISTICS OF CYCLIC USE



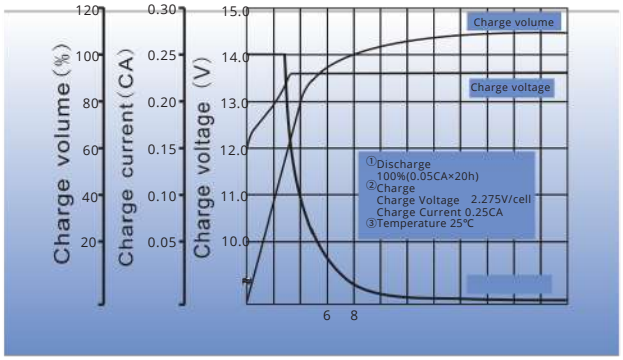
SELF -DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

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

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

Charging Method

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

Discharge Current VS Discharge Voltage

FinalDischarge VoltageV/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

E-BLUE12150

Sealed Rechargeable Gel Battery

12V
150AH

SPECIFICATIONS

Cells Per Unit	6
VoltagePerUnit	12
Capacity	150Ah@10hr-rate to 1.80V per cell@25℃
Weight	Approx.45kg
Max.DischargeCurrent	1000A (5sec)
Internal Resistance	Approx.2.2mΩ
Operating Temperature Range	Discharge: -40℃~50℃ Charge: -20℃~50℃ Storage: -20℃~50℃
Normal Operating Temperature Range	25℃±5℃
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25℃
Max.ChargingCurrent	37.5A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25℃
Self Discharge	Batteries can be stored for more than 6 month at 25℃. 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℃,77℉)

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℃,77℉)

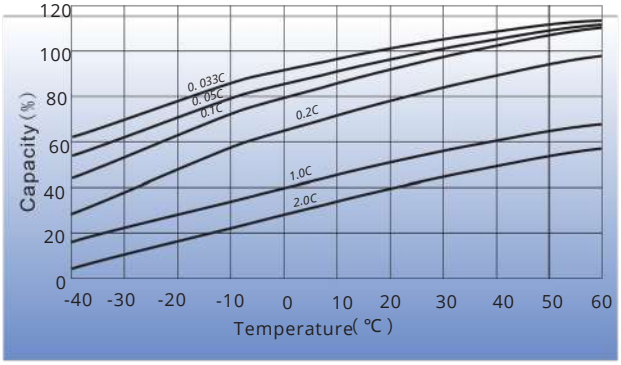
F.V/Tim e	5min	10m in	15m in	30m in	45m in	1h	3h	5h	10h	20h
1.60V/cell	697.0	479.2	377.5	239.6	180.6	164.8	81.6	50.4	30.0	15.8
1.65V/cell	667.9	476.2	375.1	232.3	179.1	163.2	80.7	50.3	29.6	15.4
1.70V/cell	624.4	464.6	367.8	227.5	174.2	162.4	80.3	49.9	29.4	15.1
1.75V/cell	580.8	435.6	343.6	215.4	172.7	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.

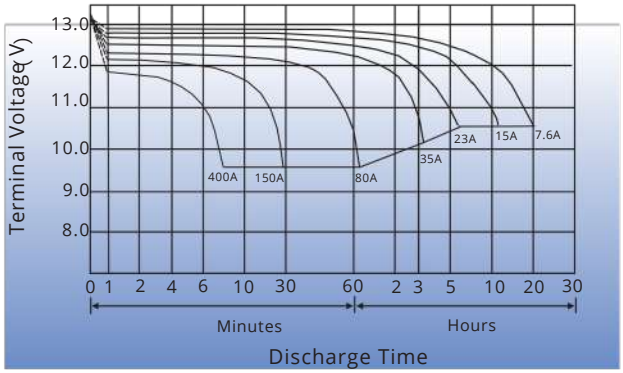
E-BLUE12150

Sealed Rechargeable Gel Battery

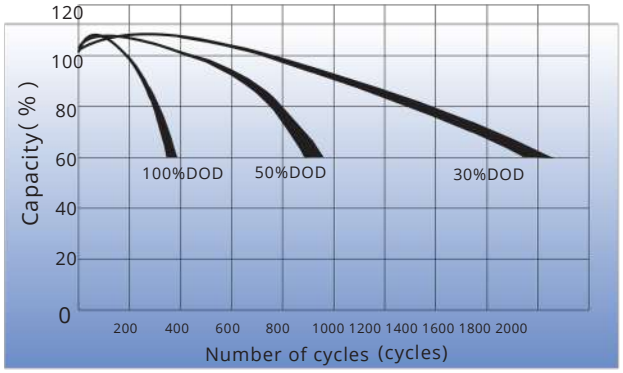
TEMPERATURE EFFECTS CURVE



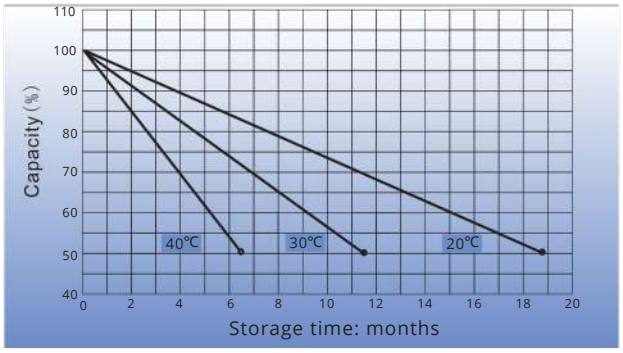
DISCHARGE TIME VS D.ISCHARGECURRENT 25(℃)



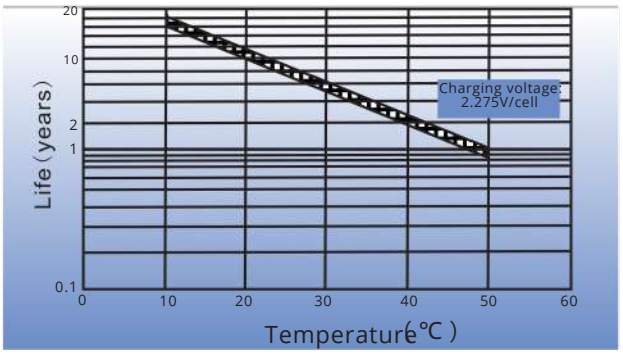
LIFE CHARACTERISTICS OF CYCLIC USE



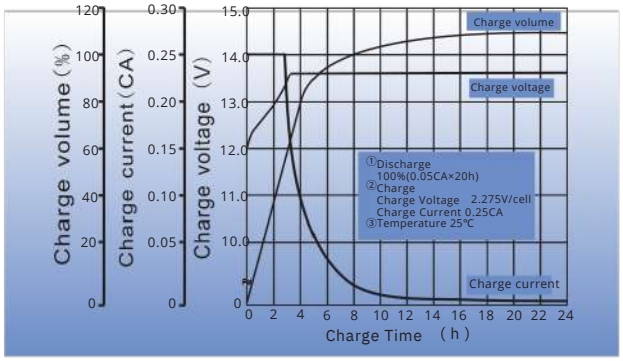
SELF -DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

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

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

Charging Method

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

Discharge Current VS Discharge Voltage

FinalDischarge VoltageV/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

E-BLUE12200

Sealed Rechargeable Gel Battery

12V 200AH

SPECIFICATIONS

Cells Per Unit	6
VoltagePerUnit	12
Capacity	200Ah@10hr-rate to 1.80V per cell@25℃
Weight	Approx.60kg
Max.DischargeCurrent	1200A (5sec)
Internal Resistance	Approx.2.6mΩ
Operating Temperature Range	Discharge: -40℃~50℃ Charge: -20℃~50℃ Storage: -20℃~50℃
Normal Operating Temperature Range	25℃±5℃
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25℃
Max.ChargingCurrent	50A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25℃
Self Discharge	Batteries can be stored for more than 6 month at 25℃. 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℃,77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1. 60V/cell	614. 2	421.6	304.2	183.8	134.5	112. 5	51.0	34.5	20.7	10.8
1.65V/cell	589. 2	381.9	297.7	180.5	133.0	111. 5	50.8	34.3	20.5	10.5
1.70V/cell	534. 8	368.6	293.4	179.3	131.5	110. 5	50.5	34.2	20.3	10.4
1.75V/cell	483. 0	339.4	285.1	177.8	127.2	110. 0	50.0	34.0	20.2	10.3
1.80V/cell	439. 2	315.3	264.5	167.2	126.0	104. 5	47.5	32.5	20.0	10.2

Constant Power Discharge Characteristics Unit: W(25,77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	963.1	662.1	521.7	331.1	249.6	193.4	95.7	59.2	38.4	20.3
1.65V/cell	922.9	658.0	518.3	321.0	247.5	191.5	94.7	59.0	37.9	20.1
1.70V/cell	862.8	642.0	508.3	314.3	240.8	190.5	94.2	58.5	37.6	19.7
1.75V/cell	802.6	601.9	474.8	297.6	238.6	188.6	93.9	58.3	37.3	19.2
1.80V/cell	722.3	561.8	448.1	294.3	231.9	179.3	87.1	55.6	35.7	18.3

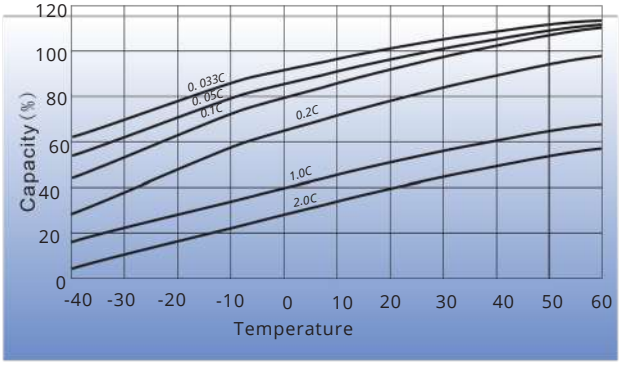
All mentioned values are average values.

Version No.: 11-202402

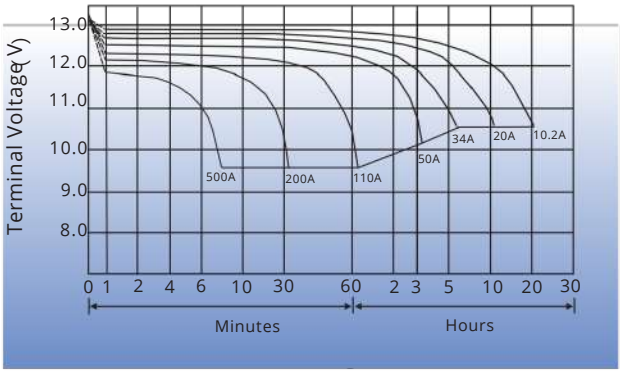
E-BLUE12200

Sealed Rechargeable Gel Battery

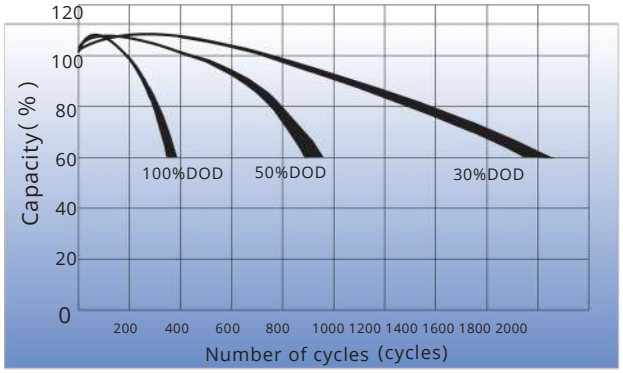
TEMPERATURE EFFECTS CURVE



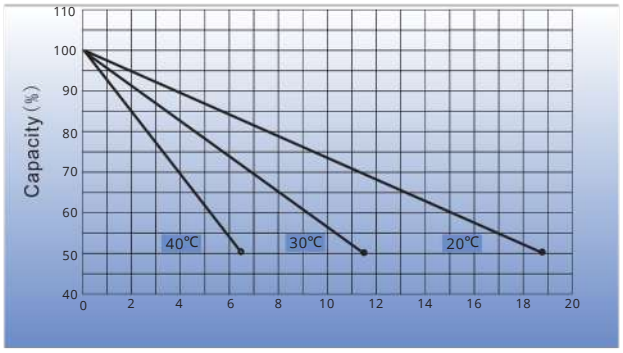
DISCHARGE TIME VS D.ISCHARGECURRENT 25(℃)



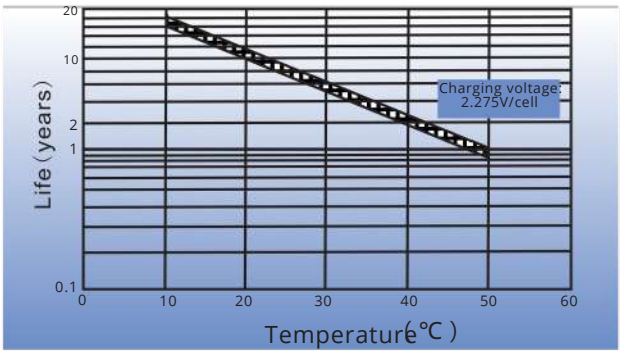
LIFE CHARACTERISTICS OF CYCLIC USE



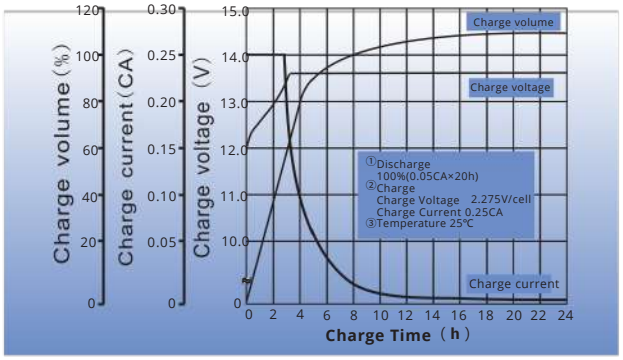
SELF -DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

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

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

Charging Method

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

Discharge Current VS Discharge Voltage

FinalDischarge VoltageV/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

E-BLUE12250

Sealed Rechargeable Gel Battery

12V
250AH

SPECIFICATIONS

Cells Per Unit	6
VoltagePerUnit	12
Capacity	250Ah@10hr-rate to 1.75V per cell@25℃
Weight	Approx.69kg
Max.DischargeCurrent	1200A (5sec)
Internal Resistance	Approx.2.2mΩ
Operating Temperature Range	Discharge: -40℃～50℃ Charge: -20℃～50℃ Storage: -20℃～50℃
Normal Operating Temperature Range	25℃±5℃
Float charging Voltage	13.50 to 13.80V DC/unit Average at 25℃
Max.ChargingCurrent	62.5A
Equalization and Cycle service	14.70 to 15.00V DC/unit Average at 25℃
Self Discharge	Batteries can be stored for more than 6 month at 25℃. 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℃,77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	614.2	474.3	418.3	238.9	174.9	140.6	63.4	43.3	25.8	13.2
1.65V/cell	589.2	429.7	409.3	234.7	172.9	139.4	63.0	43.1	25.6	13.1
1.70V/cell	534.8	414.7	403.4	233.1	170.9	138.1	62.8	42.8	25.3	13.0
1.75V/cell	483.0	381.8	392.0	231.1	165.4	137.5	62.5	42.5	25.0	12.8
1.80V/cell	439.2	354.7	363.7	217.4	163.7	130.6	58.8	40.6	21.9	11.9

Constant Power Discharge Characteristics Unit:W(25℃,77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	1013.8	836.4	658.9	418.2	315.3	272.5	134.9	83.4	49.6	26.0
1.65V/cell	971.5	831.2	654.7	405.5	312.6	269.9	133.5	83.2	49.0	24.7
1.70V/cell	908.2	811.0	642.0	397.1	304.1	268.5	132.7	82.5	48.5	24.6
1.75V/cell	844.8	760.3	599.8	375.9	301.4	265.8	132.3	82.2	48.2	24.5
1.80V/cell	760.3	709.6	566.0	371.7	292.9	252.7	122.8	78.3	42.5	23.1

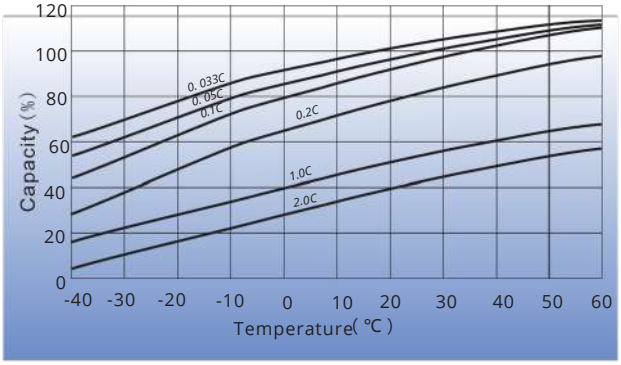
All mentioned values are average values.

Version No.: 11-202402

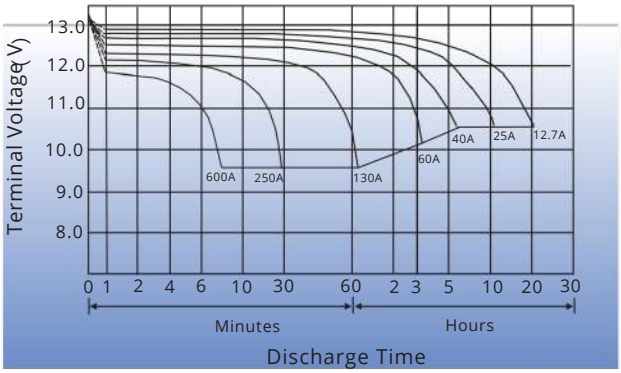
E-BLUE12250

Sealed Rechargeable Gel Battery

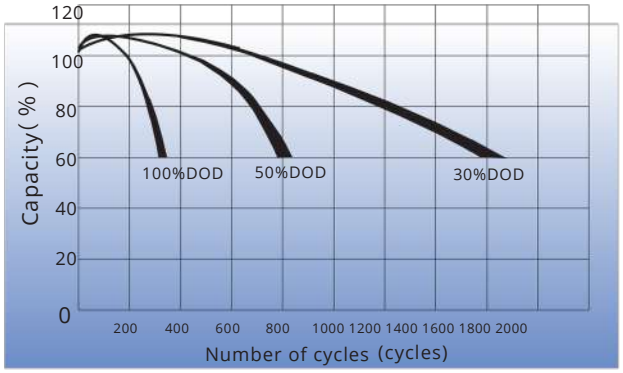
TEMPERATURE EFFECTS CURVE



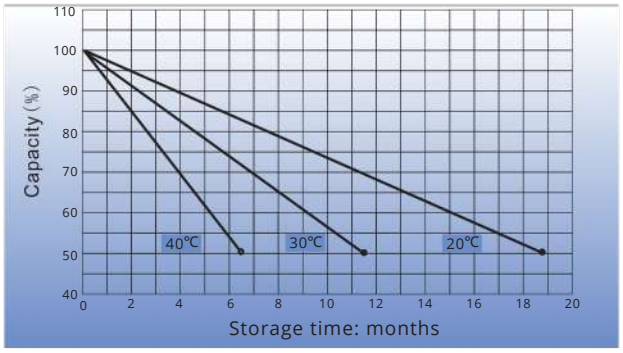
DISCHARGE TIME VS D.ISCHARGECURRENT 25 (℃)



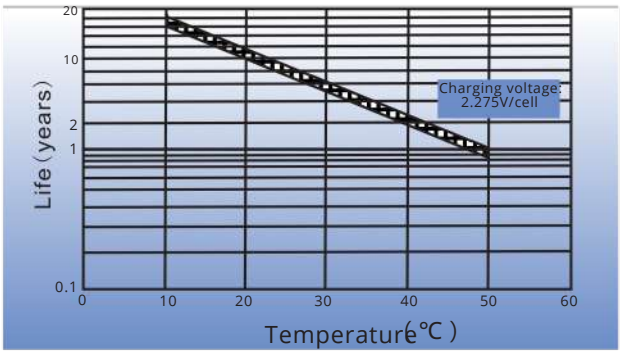
LIFE CHARACTERISTICS OF CYCLIC USE



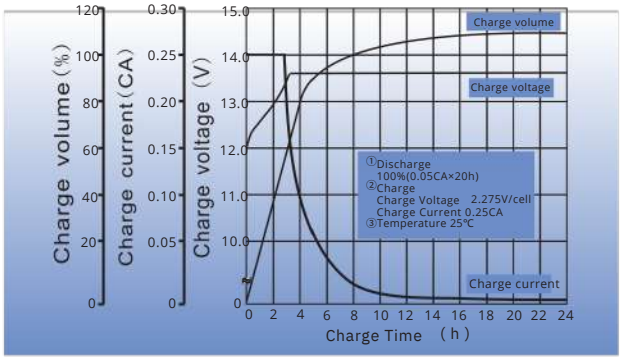
SELF -DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



Charging Procedures

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

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

Charging Method

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

Discharge Current VS Discharge Voltage

FinalDischarge VoltageV/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

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