

MK12-36W 12V9Ah



introduce

MK12-36W is a high power valve-regulated sealed lead-acid battery. The most suitable for high-rate discharge requirements of the UPS, EPS and other emergency backup power equipment and uninterruptible power supply equipment. As with all Baace batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

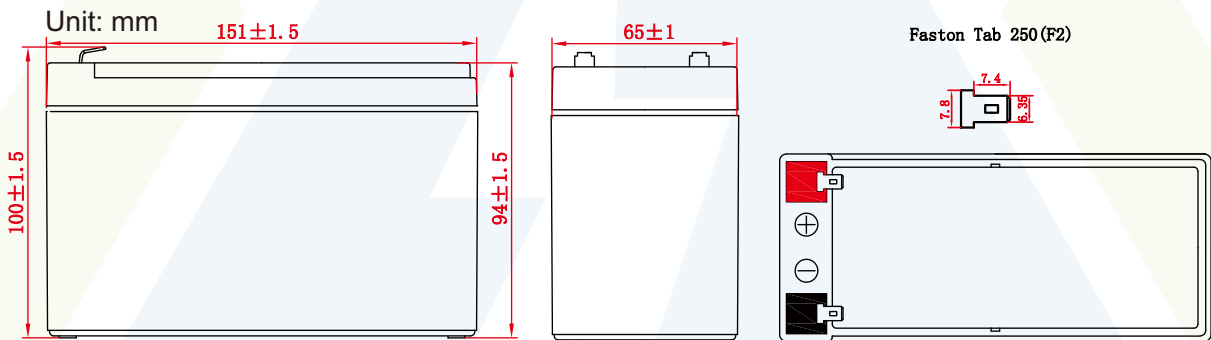


MK-manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL2000.

Specification

CellsPerUnit	6
Voltage PerUnit	12
Capacity	36W@15min-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 2.58 kg(5.654 lbs)
Maximum DischargeCurrent	130A(5sec)
InternalResistance	Approx. 20 mΩ
Operating TemperatureRange	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating TemperatureRange	25°C±3°C (77°F±5°F)
FloatChargingVoltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging CurrentLimit	2.7A
Equalization andCycleService	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
SelfDischarge	Baace Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	F2-Faston Tab250
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

Dimensions :	Overall Height (H)	Containerheight (h)	Length (L)	Width (W)
Unit: mm	100±1.5	94±1.5	151±1.5	65±1



ConstantCurrentDischargeCharacteristics Unit: A(25°C/77°F)

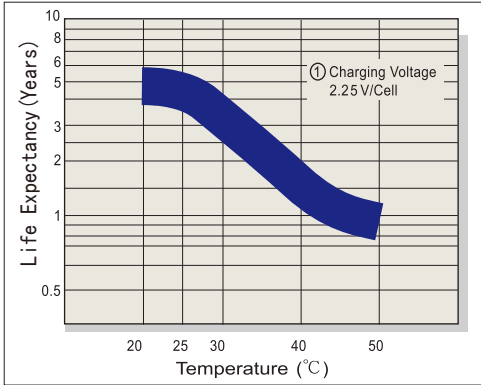
F.V/Time	2minr	3minr	5minr	10minr	15minr	20minr	30minr	45minr	60minr	90minr	120minr
1.60V	67.3	57.1	43.2	25.3	18.8	14.9	10.6	7.45	5.88	4.22	3.40
1.67V	60.6	52.4	41	24.7	18.4	14.6	10.4	7.32	5.78	4.15	3.35
1.70V	58	50.4	39.8	24.4	18.2	14.4	10.3	7.29	5.75	4.14	3.34
1.75V	52	45.9	37.1	23.3	17.7	14.1	10.1	7.16	5.67	4.08	3.29
1.80V	45.7	40.9	33.8	21.7	16.7	13.4	9.80	6.95	5.51	3.99	3.23
1.85V	38.8	35.4	29.9	19.8	15.4	12.5	9.20	6.58	5.24	3.81	3.10

ConstantPowerDischargeCharacteristics Unit: W/ell(25°C/77°F)

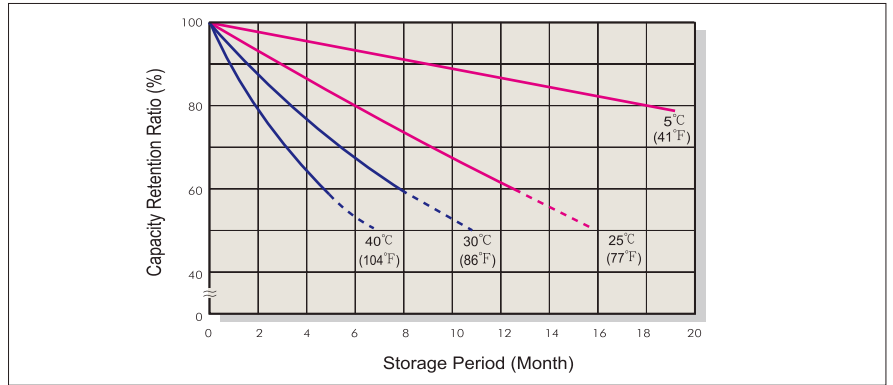
F.V/Time	2minr	3minr	5minr	10minr	15minr	20minr	30minr	45minr	60minr	90minr	120minr
1.60V	120.6	100.5	73.9	50.0	36.5	28.9	20.3	14.5	11.5	8.29	6.54
1.67V	111.2	94.1	71.1	48.9	36.0	28.5	20.1	14.3	11.4	8.21	6.48
1.70V	106.2	90.5	69.1	48.2	35.6	28.1	19.9	14.2	11.3	8.14	6.43
1.75V	97.2	83.9	65.4	46.4	34.7	27.7	19.6	14.0	11.2	8.06	6.37
1.80V	88.8	77.2	60.7	43.9	33.1	26.6	19.0	13.7	10.9	7.91	6.27
1.85V	77.0	67.9	54.5	40.4	30.8	25.0	18.0	13.0	10.5	7.60	6.05

MK12-27W 12V7Ah

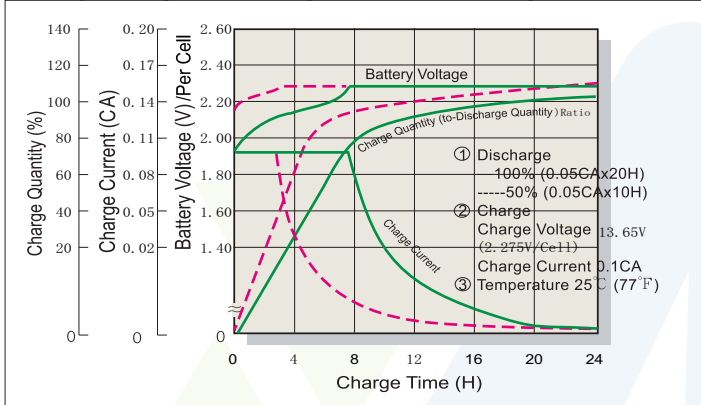
Trickle(or Float)Design Life



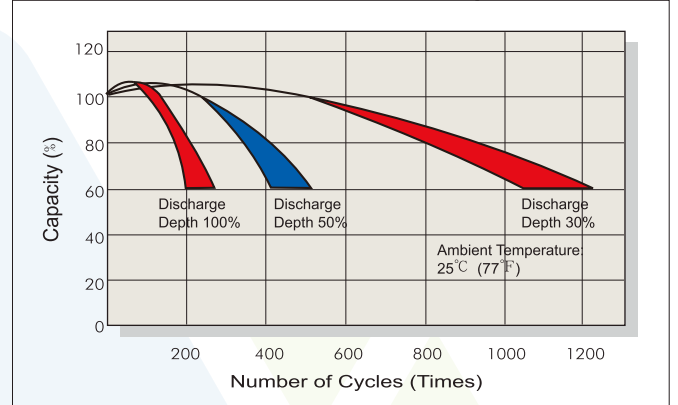
Capacity Retention Characteristic



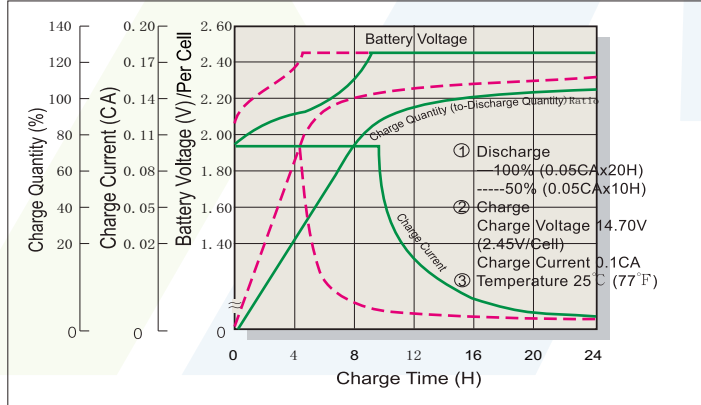
Battery Voltage and Charge Time for Standby Use



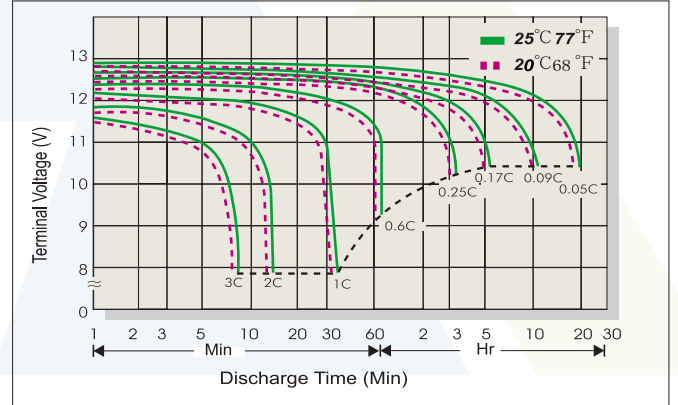
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C (77°F)	2.45	2.40~2.50	0.30C
Standby	25°C (77°F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%

