

MK12-145W 12V35Ah



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

introduce

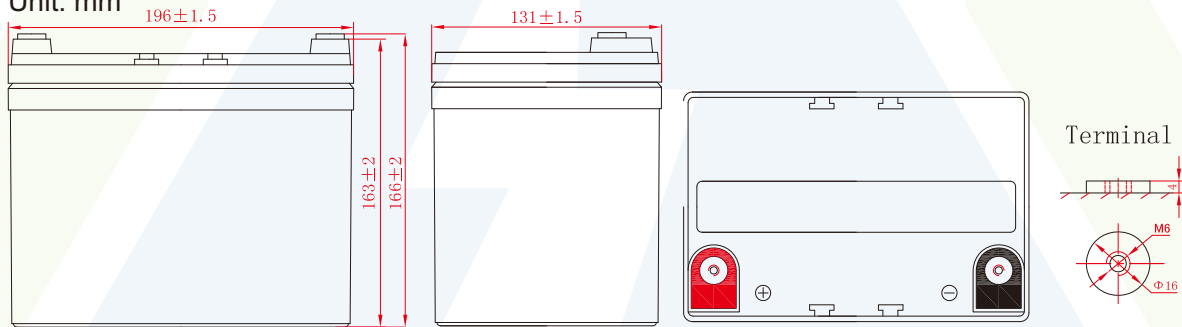
MK12-145W is a high power valve-regulated sealed lead-acid battery. The most suitable for high-rate discharge requirements of the UPS, EPS and other emergency backup power equipment and uninterruptible power supply equipment. As with all Baace batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

Specification

CellsPerUnit	6
Voltage PerUnit	12
Capacity	145W@15min-rate to 1.67V per cell@25°C (77°F)
Weight	Approx. 10.5 kg (23.15 lbs)
Maximum Discharge Current	350A(5sec)
Internal Resistance	Approx. 10 mΩ
Operating Temperature Range	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)
NominalOperatingTemperatureRange	25°C±3°C (77°F±5°F)
FloatCharging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	10A
Equalization andCycleService	14.4 to 14.8 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 temperature the time interval will be shorter.
Terminal	Thread lead alloy recessed terminal to accept M6 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

Dimensions :	Overall Height (H)	Container height (h)	Length(L)	Width (W)
Unit: mm	166±2	163±2	196±1.5	131±1.5

Unit: mm



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

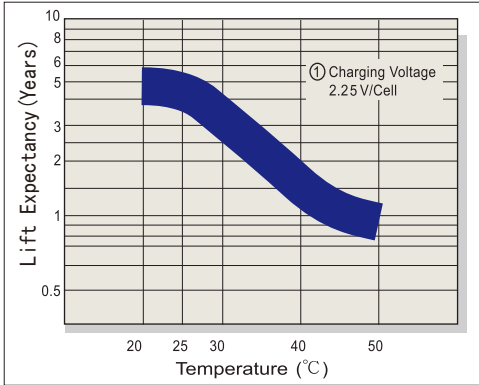
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	84.6	75.3	65.6	55.9	46.9	35.6	21.7	16.0	14.9
1.80V	92.0	81.4	71.7	60.0	49.3	37.6	22.5	16.6	15.7
1.75V	99.0	86.9	77.3	63.6	51.5	39.2	23.1	17.0	16.3
1.70V	106	91.9	82.6	66.9	53.2	40.4	23.5	17.4	16.4
1.67V	111	95.5	85.9	69.1	55.3	41.6	24.2	17.8	16.7
1.60V	120	101.9	91.6	72.8	58.9	43.4	25.2	18.6	17.0

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

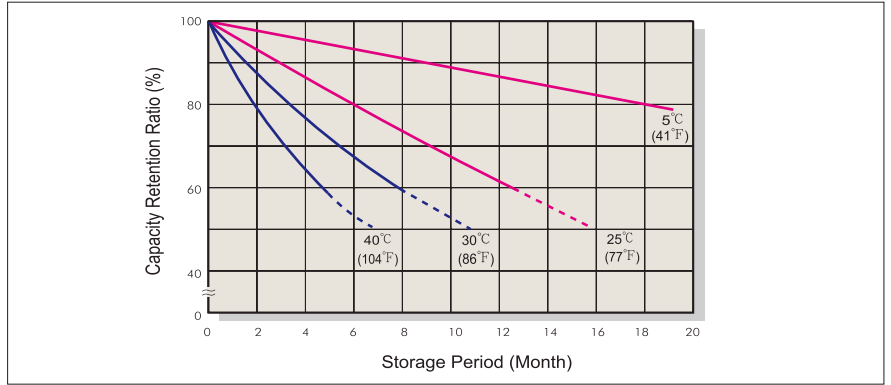
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	164	147	130	110	92.8	72.0	43.7	32.0	31.3
1.80V	176	156	139	122	96.5	74.4	44.5	32.7	32.3
1.75V	187	164	148	133	100	76.6	45.4	33.3	32.8
1.70V	197	172	156	141	104	78.3	46.1	33.9	33.3
1.67V	203	177	160	145	106	79.1	46.5	34.3	33.4
1.60V	216	186	168	150	109	80.7	47.2	34.9	33.8

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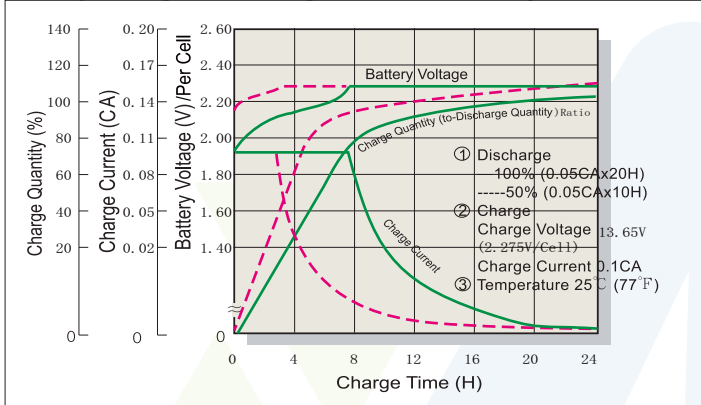
Trickle(or Float)Design Life



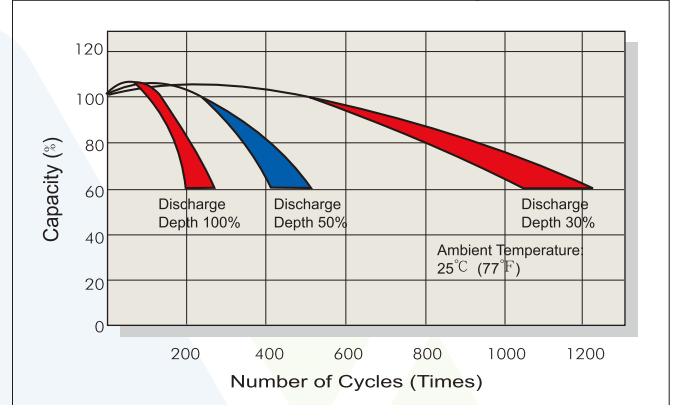
Capacity Retention Characteristic



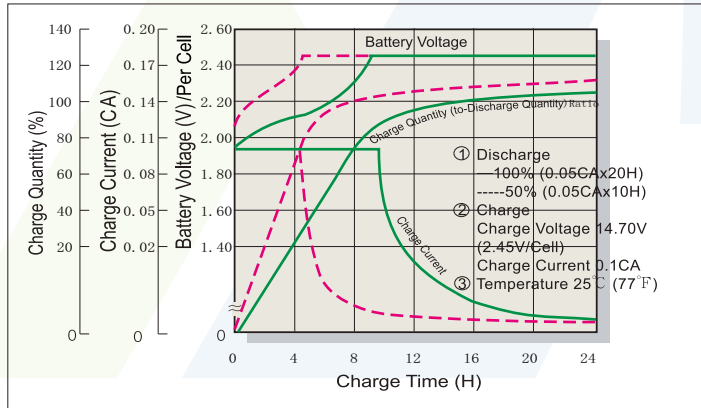
Battery Voltage and Charge Time for Standby Use



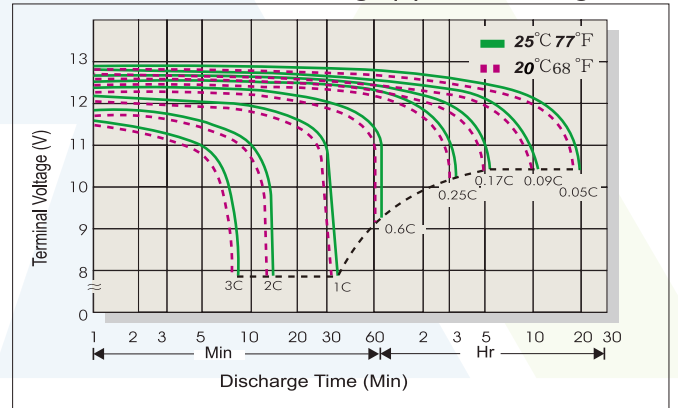
Cycle Service Life



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%

