

MK12-295W 12V75Ah



MK-manufactured **VRLA** (Absorbent **G**lass **M**at type) batteries are UL-recognized components under UL2000.

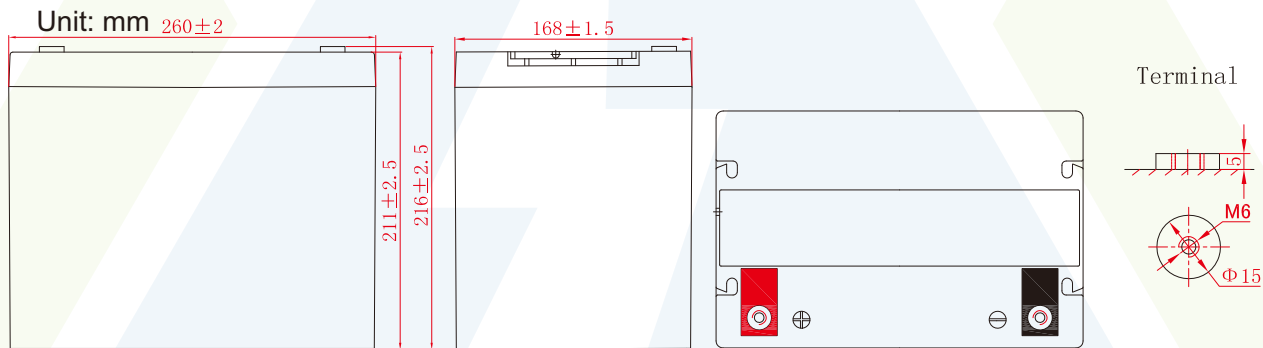
introduce

MK12-295W 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	295W@15min-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 23.6 kg(52.0 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 5.0mΩ
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	22.5A
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)	Containerheight (h)	Length(L)	Width (W)
Unit: mm	214±2	210±2	260±2.5	168±2



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

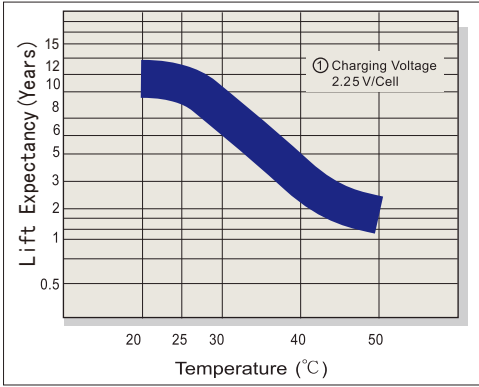
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	188	168	146	124	104	79.1	48.2	35.4	30.3
1.80V	205	181	159	133	110	83.4	49.9	36.7	32.0
1.75V	220	193	172	141	114	86.9	51.2	37.7	33.1
1.70V	235	204	183	149	118	89.7	52.1	38.5	33.4
1.67V	246	212	191	154	123	92.3	53.6	39.6	34.1
1.60V	267	226	203	162	131	96.3	55.9	41.2	34.6

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

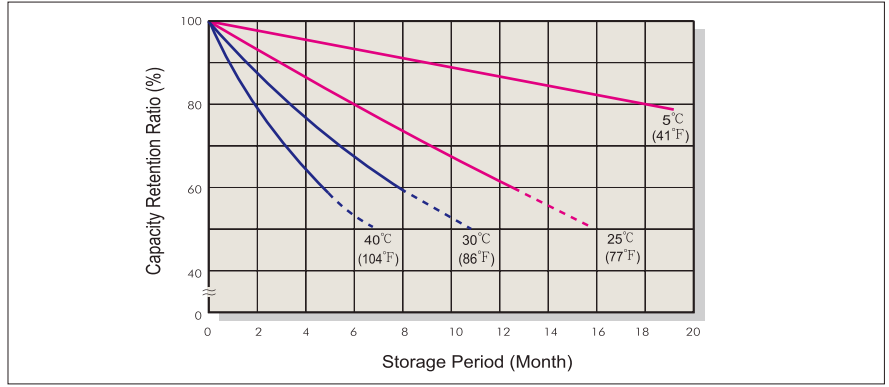
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN	120min
1.85V	365	328	290	224	206	160	96.8	71.0	63.6
1.80V	390	348	310	249	215	165	98.6	72.4	65.6
1.75V	414	365	328	271	223	170	101	73.8	66.8
1.70V	436	382	346	288	230	174	102	75.2	67.7
1.67V	450	392	355	295	234	175	103	76.0	68.0
1.60V	480	413	373	304	242	179	105	77.5	68.7

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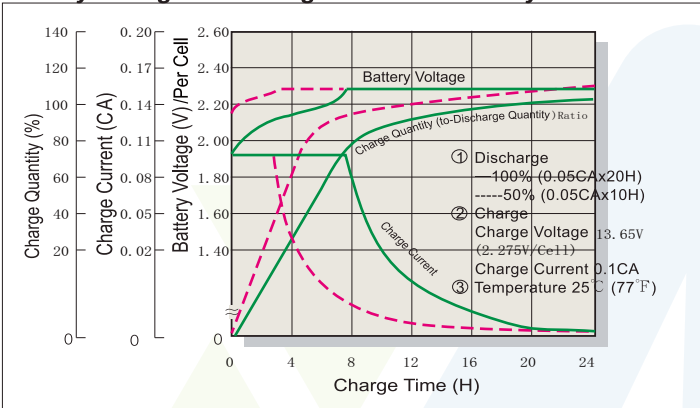
Trickle(or Float)Design Life



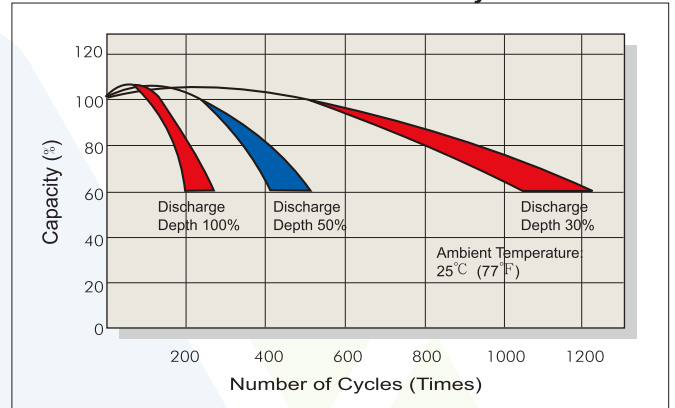
Capacity Retention Characteristic



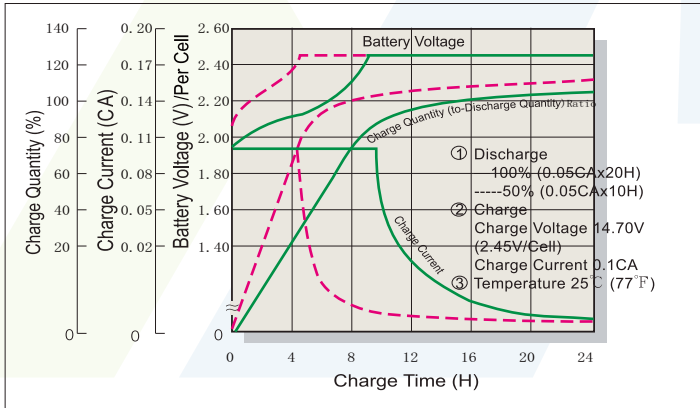
Battery Voltage and Charge Time for Standby Use



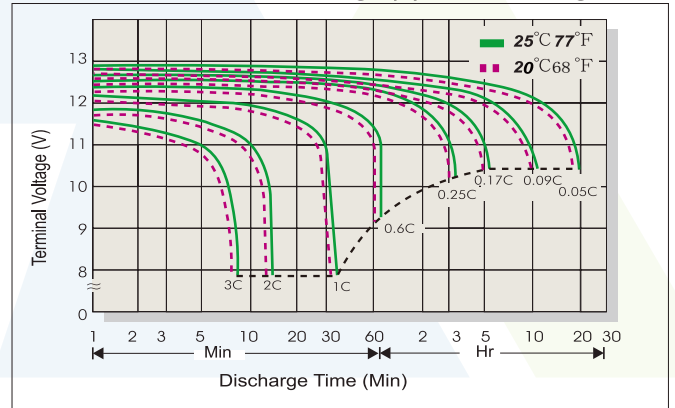
Cycle Service Life



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 (10HR)

Temperature	Dependency of Capacity (10HR)
40°C	103%
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%

