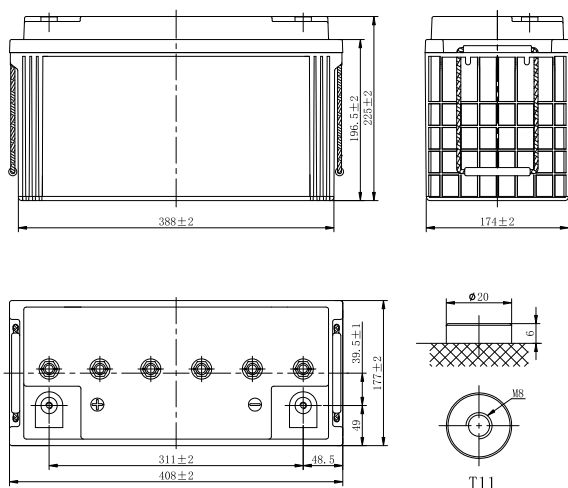


KBG121200-M8 12V 120Ah



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C_{10} 1.80V/cell	120Ah
Dimension	Length	408mm (16.1inches)
	Width	177mm (6.97inches)
	Container Height	225mm (8.86inches)
	Total Height	225mm (8.86inches)
Approx Weight	35.3kg (77.8lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2400A	
Internal Resistance (25°C)	Approx 4 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.25C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	
	-5mV/cell/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F).	
	KBG series batteries can be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	129.3	108.2	85.5	64.9	53.7	34.2	26.5	21.8	18.5	16.1	13.1	11.1	6.00
1.80V/cell	154.0	126.0	98.4	73.7	59.8	37.1	28.5	23.2	19.9	17.3	14.0	12.0	6.18
1.75V/cell	171.7	138.4	104.9	77.9	63.2	38.9	29.5	24.0	20.4	17.8	14.3	12.1	6.24
1.70V/cell	185.5	147.1	110.6	81.8	66.0	40.8	30.6	24.7	21.0	18.2	14.4	12.2	6.36
1.67V/cell	195.3	154.8	115.9	84.3	68.3	41.9	31.7	25.5	21.4	18.6	14.7	12.3	6.42
1.60V/cell	210.6	166.2	123.1	89.1	71.6	43.5	32.8	26.0	21.8	19.0	14.9	12.5	6.48
Constant Power Discharge (Watts/cell) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	243.2	205.5	163.8	125.4	104.1	66.5	51.9	42.8	36.4	31.9	26.0	22.1	11.9
1.80V/cell	285.9	236.1	186.2	141.2	115.2	71.9	55.5	45.3	39.0	34.1	27.7	23.8	12.3
1.75V/cell	314.6	256.5	196.8	148.1	121.3	75.1	57.3	46.7	39.9	34.9	28.1	24.0	12.4
1.70V/cell	334.5	270.2	206.1	154.6	126.1	78.5	59.1	48.0	40.8	35.6	28.4	24.1	12.6
1.67V/cell	348.9	281.6	213.9	158.0	129.7	80.2	61.0	49.2	41.6	36.2	28.8	24.3	12.7
1.60V/cell	369.9	299.2	225.4	166.0	135.2	82.8	62.9	50.2	42.3	36.9	29.1	24.7	12.8



APPLICATIONS

- Communication power supply
- Engine starting
- Pump systems
- Alarm installations
- Marine and power stations

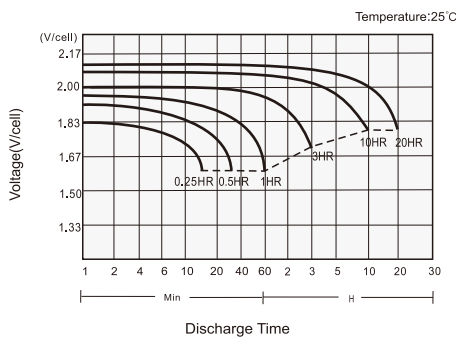
GENERAL FEATURES

- 12 years design life (25°C)
- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate

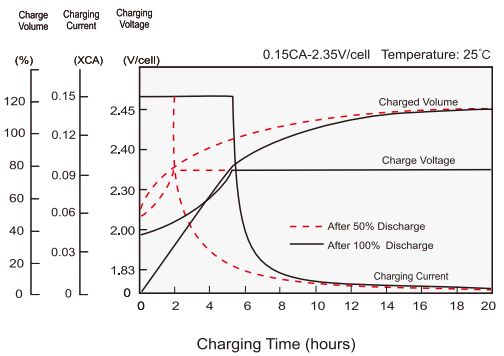
STANDARDS

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat  
- UL, CE Approved
- Manufactured under ISO 45001, ISO 9001, and ISO 14001 standards.

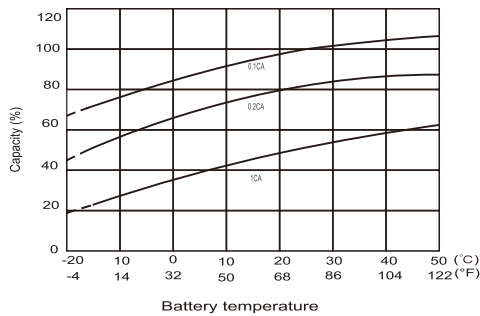
Discharge Characteristics



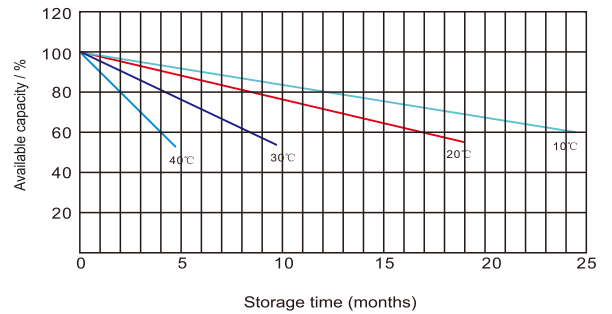
Charging Characteristics



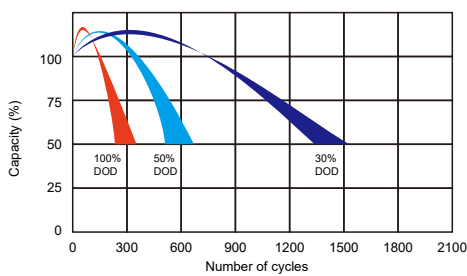
Effects of Temperature on Capacity



Self Discharge Characteristics



Cycle Service Life in relation to the Depth of discharge



Float service life

