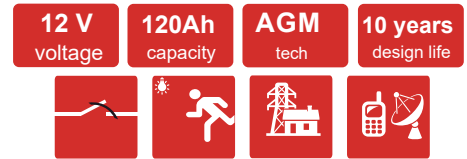


KBL121200 12V 120Ah



Kaise Battery series are Top terminal VRLA AGM battery for General use. With advanced manufacturing technique and industry scale, KBL series delivers high energy density and high reliability performance, highly suited for UPS systems, security and alarm systems, telecommunication, utilities, emergency light systems, CATV and other backup applications.



Technical Specifications

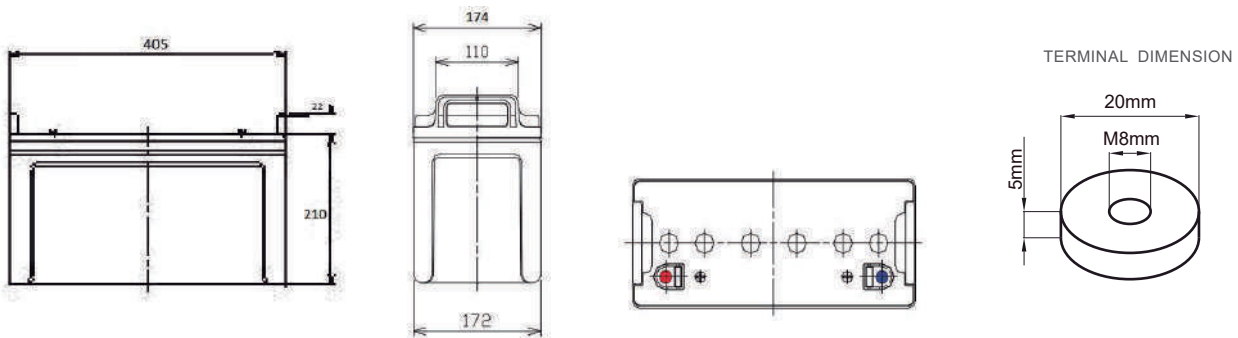
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25°C)	10 Years
Nominal Capacity (25°C)	120 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L520 x W240 x H220 x TH232
Approx. Weight	34.4 kg (75.8 lbs)
Terminal Type	Female Copper Insert M8 (torque: 10~12Nm)
Internal Resistance	Approx. 0.004 Ohm (fully charged @ 20°C)
Max. Charge Current	30A
Max. Discharge Current (5S)	960A
Short Circuit Current	3000A
Self Discharge	Approx. 3% per month @ 25°C
Ambient Temperature	Discharge: -20~55°C Charge: -20~50°C Storage: -20~45°C
Float Charge Voltage	13.6V/block @25°C (-3mV/cell/ C)
Equalize and cycle Use Charge Voltage	14.4V/block @25°C
Container Material	ABS (UL94-V0 optional)



Complied standards

- IEC 60896-21/22
- GB/T19638
- JIS C8704
- BS6290 part 4

Battery Dimensions



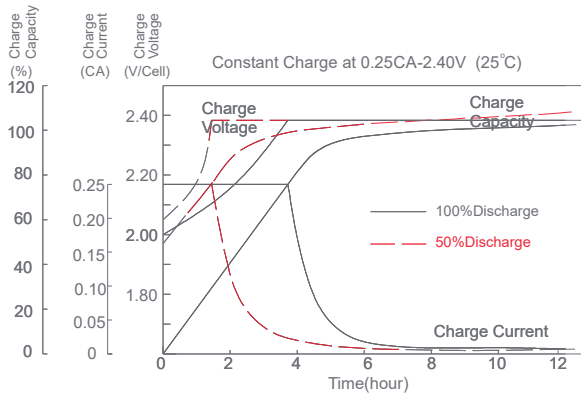
Constant Current Discharge Characteristics: Amps (25°C)

F.V/Time	5min	10min	15min	30min	1h	3h	4h	5h	10h	20h
1.60 V	360	260	215	135	76.3	32.0	26.6	22.1	12.4	6.50
1.67 V	321	245	207	129	75.2	31.6	26.3	21.7	12.3	6.48
1.70 V	287	222	195	124	74.1	31.2	26.0	21.5	12.2	6.45
1.75 V	249	207	181	120	72.6	30.7	25.7	21.3	12.1	6.40
1.80 V	220	188	169	115	71.1	30.0	25.1	20.8	12.0	6.30
1.85 V	189	169	154	108	68.9	29.0	24.3	20.3	11.7	6.05

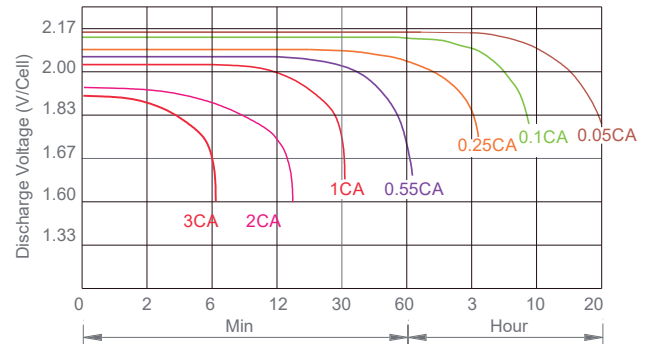
Constant Power Discharge Characteristics: W/Cell (25°C)

F.V/Time	5min	10min	15min	30min	1h	3h	4h	5h	10h	20h
1.60 V	634	477	380	245	148	64.2	51.4	42.0	24.6	13.3
1.67 V	573	445	370	235	146	63.8	51.0	41.8	24.4	13.1
1.70 V	518	408	352	228	144	63.5	50.9	41.7	24.3	12.9
1.75 V	456	384	330	220	142	63.1	50.7	41.5	24.1	12.7
1.80 V	408	353	320	215	138	62.4	50.0	40.8	23.8	12.6
1.85 V	355	321	294	203	134	60.9	49.0	40.1	23.4	12.4

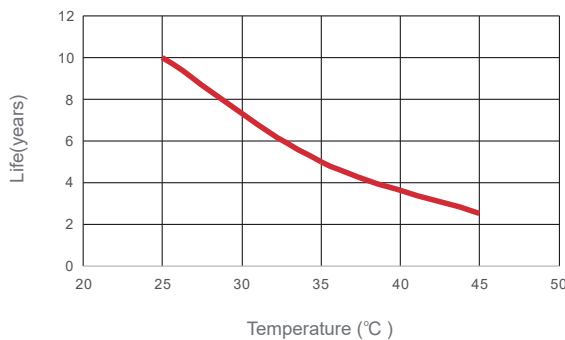
Charge Characteristic



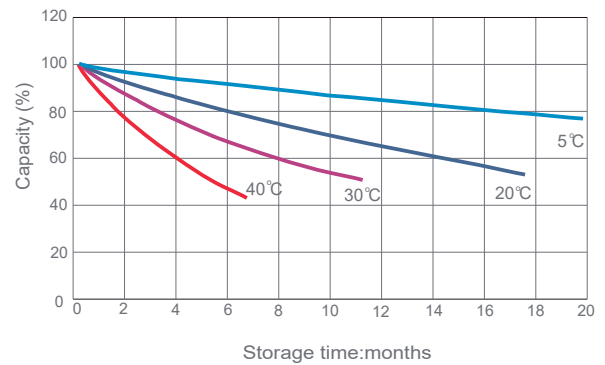
Discharge Characteristic (25°C)



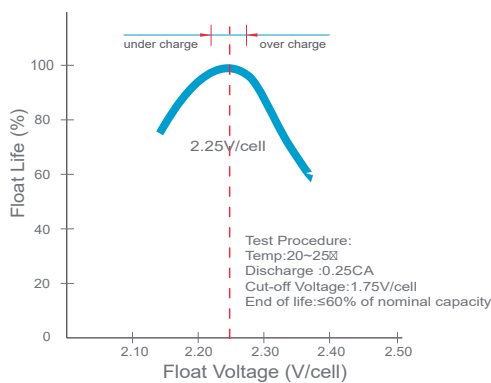
Temperature vs Float Life



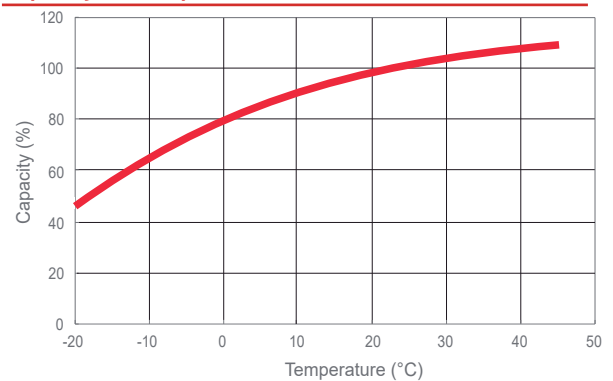
Self discharge characteristics



Float voltage vs Float life



Capacity vs Temperature



Final voltage settings recommended according to the discharge current

Discharge Current I (A)	$I \leq 0.08C$	$0.08C \leq I < 0.2C$	$0.2C \leq I < 0.6C$	$0.6C \leq I < 1.0C$	$I \geq 1.0C$
Final of Voltage	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$