KBL12450 12V 45Ah

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.

12 V voltage | 45Ah capacity | AGM tech | 10 years design life

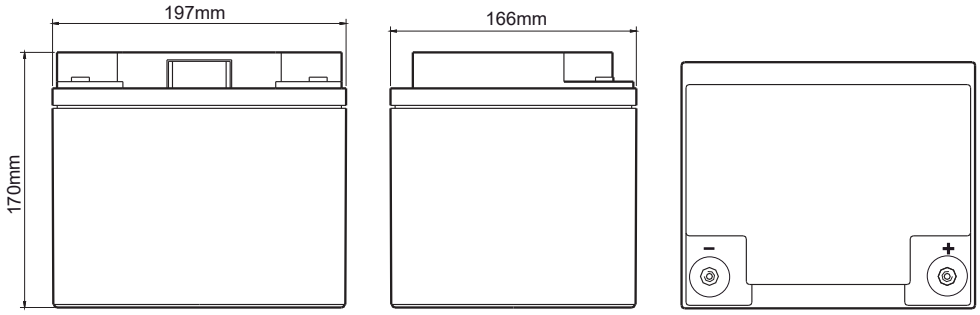
Technical Specifications

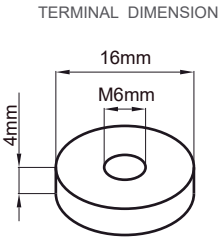
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25°C)	10 Years
Nominal Capacity (25°C)	45 Ah @ 20HR-rate (to 1.80Vpc)
Dimension (mm)	L197 x W166 x H170 x TH170
Approx. Weight	13.1 kg (28.9 lbs)
Terminal Type	Female Copper Insert M6 (torque 6~8N.m)
Internal Resistance	Approx. 0.008 Ohm (fully charged @ 20°C)
Max. Charge Current	11.25A
Max. Discharge Current (5S)	450A
Short Circuit Current	1450A
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	15min	30min	1h	3h	5h	10h	20h
1.60 V	83.3	49.3	29.1	12.0	8.3	4.8	2.4
1.65 V	79.1	47.9	28.6	11.8	8.1	4.7	2.4
1.70 V	75.8	466.3	27.8	11.5	7.9	4.7	2.4
1.75 V	72.3	44.5	27.1	11.2	7.7	4.6	2.4
1.80 V	68.6	42.6	26.3	11.0	7.6	4.5	2.4

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

F.V/Time	15min	30min	1h	3h	5h	10h	20h
1.60 V	144.6	92.6	52.9	22.6	15.8	9.5	5.0
1.65 V	139.5	90.1	51.9	22.4	15.6	9.4	5.0
1.70 V	134.1	87.1	50.8	21.9	15.3	9.2	4.9
1.75 V	128.3	83.9	49.5	21.3	15.1	9.2	4.9
1.80 V	122.0	80.4	48.0	20.7	14.7	9.1	4.8

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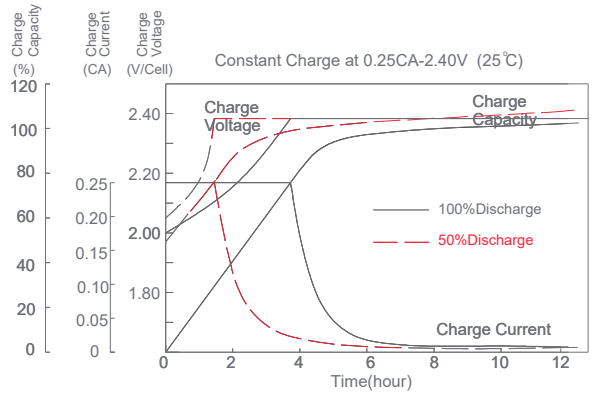
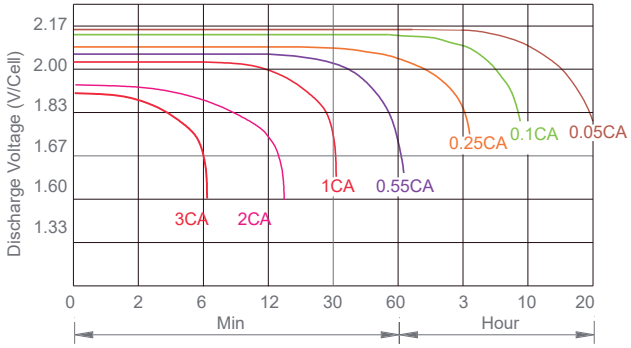
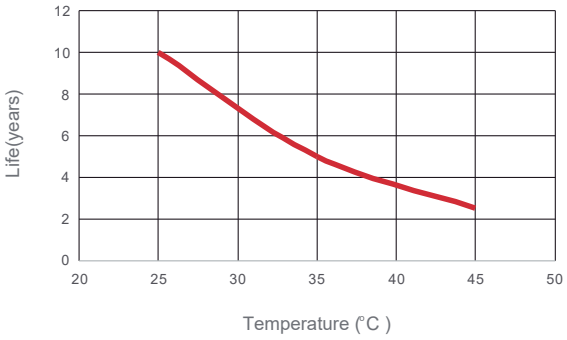
Charge Characteristic



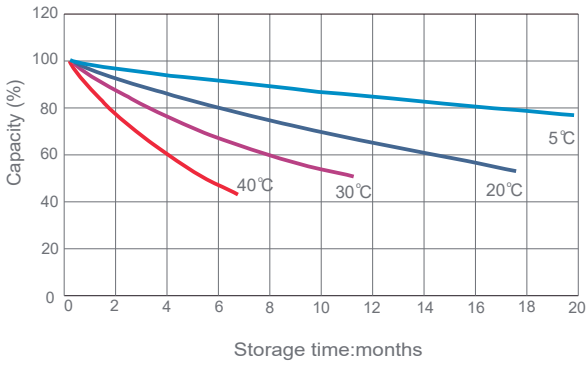
Discharge Characteristic (25°C)



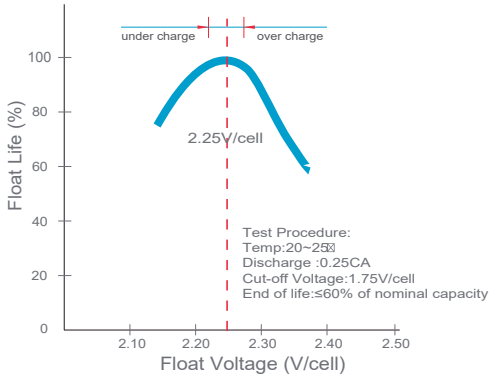
Temperature vs Float Life



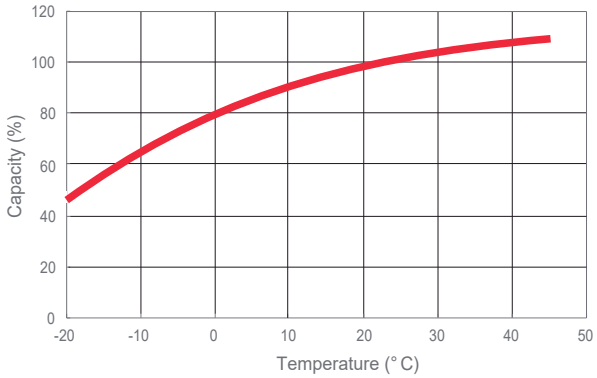
Self discharge characteristics



Float voltage vs Float life



Capacity vs Temperature



Final voltage settings recommended according to the discharge current

Discharge Current I (A)	I ⩽ 0.08C	0.08C ⩽ I < 0.2C	0.2C ⩽ I < 0.6C	0.6C ⩽ I < 1.0C	I ⩾ 1.0C
Final of Voltage	⩾ 1.85Vpc	⩾ 1.80Vpc	⩾ 1.75Vpc	⩾ 1.70Vpc	⩾ 1.60Vpc

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