KBL12500 12V 50Ah

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 | 50Ah capacity | AGM tech | 10 years design life

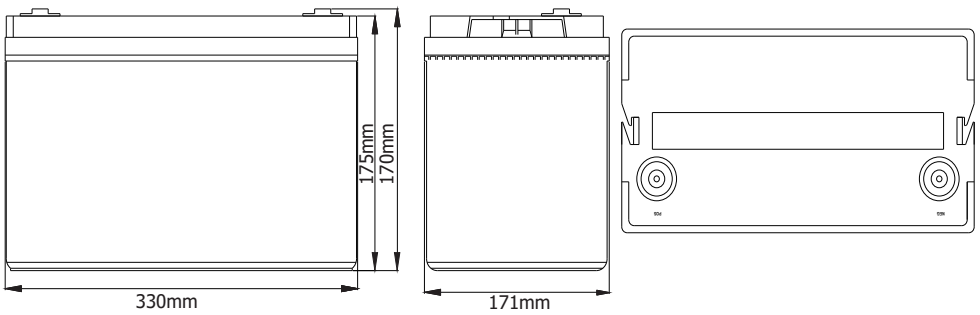
Technical Specifications

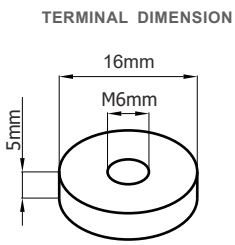
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25°C)	10 Years
Nominal Capacity (25°C)	50 Ah @ 20HR-rate (to 1.80Vpc)
Dimension (mm)	L330 x W171 x H170 x TH171
Approx. Weight	18.5 kg (40.8 lbs)
Terminal Type	Female Copper Insert M6 (torque 6~8N.m)
Internal Resistance	Approx. 0.0065 Ohm (fully charged @ 20°C)
Max. Charge Current	12.5A
Max. Discharge Current (5S)	500A
Short Circuit Current	1700A
Self Discharge	Approx. 2.5% 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	149	109	90.6	55.9	33.5	14.0	11.2	9.31	5.25	2.84
1.67 V	133	101	85.1	53.5	32.6	13.9	11.0	9.21	5.20	2.78
1.70 V	118	91.6	80.7	51.5	31.8	13.7	10.9	9.11	5.10	2.71
1.75 V	103	85.1	74.7	49.5	31.2	13.5	10.8	9.01	5.01	2.66
1.80 V	91.1	77.7	69.8	47.3	30.1	13.2	10.5	8.76	5.00	2.61
1.85 V	77.7	69.8	63.4	44.6	28.9	12.8	10.2	8.56	4.82	2.55

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

F.V/Time	5min	10min	15min	30min	1h	3h	4h	5h	10h	20h
1.60 V	261	197	165	103	62.4	26.5	21.2	17.7	10.1	5.49
1.67 V	236	183	156	99.0	60.9	26.3	21.0	17.6	10.0	5.40
1.70 V	213	168	149	96.0	59.9	26.2	21.0	17.6	10.0	5.30
1.75 V	188	158	140	93.6	59.4	26.0	20.9	17.5	9.95	5.25
1.80 V	168	146	132	90.1	57.9	25.7	20.6	17.2	9.85	5.20
1.85 V	147	133	121	86.1	55.9	25.1	20.2	17.0	9.65	5.10

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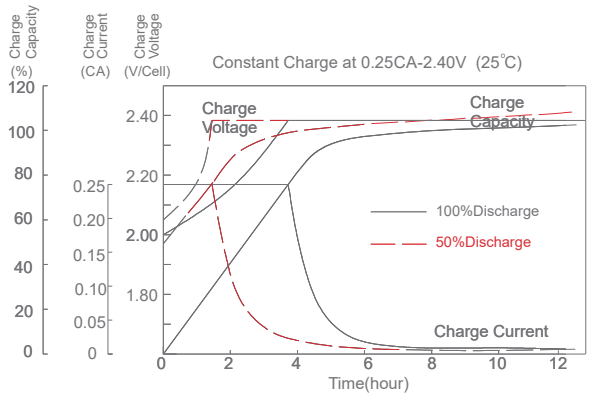
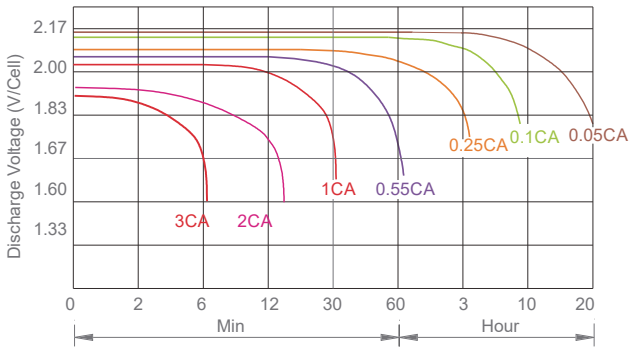
Kaise®

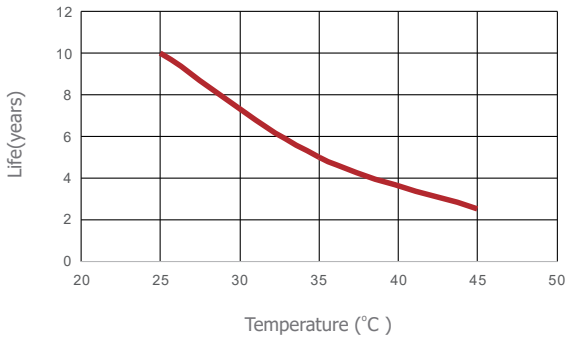
Charge Characteristic



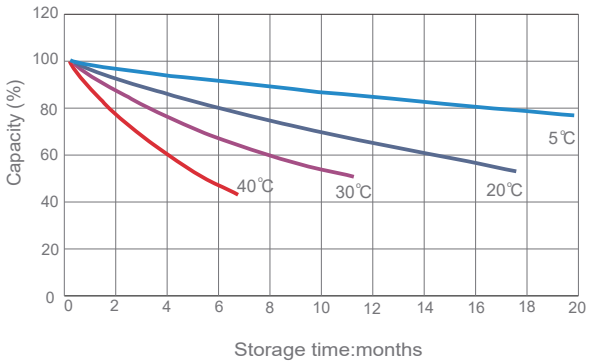
Discharge Characteristic (25°C)



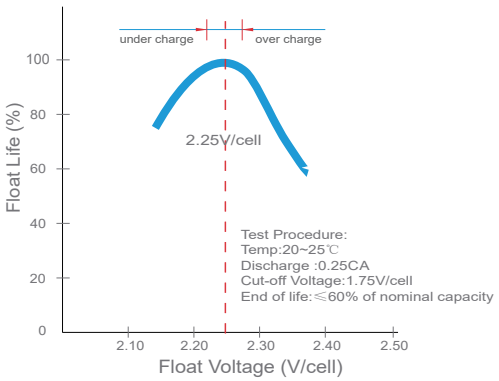
Temperature vs Float Life



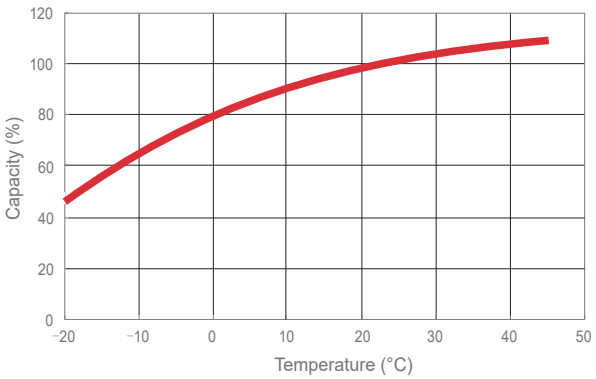
Self discharge characteristics



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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