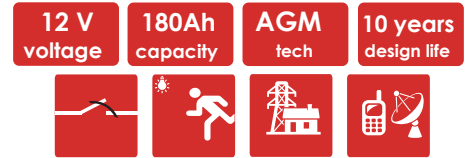


KB121800 12V 180Ah



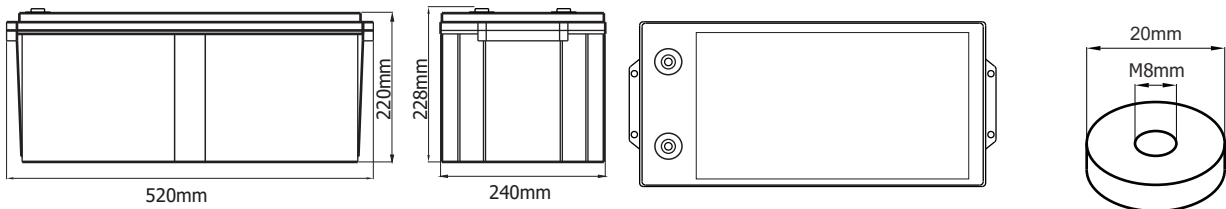
Kaise Battery series are Top terminal VRLA AGM battery for General use. With advanced manufacturing technique and industry scale, KBL series delivers high energy density and high reliability performance, highly suited for UPS systems, security and alarm systems, telecommunication, utilities, emergency 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)	180 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L520 x W240 x H220 x TH228
Approx. Weight	53 kg (116.8 lbs)
Terminal Type	Female Copper Insert M8 (torque: 10~12Nm)
Internal Resistance	Approx. 0.0033 Ohm (fully charged @ 20°C)
Max. Charge Current	45A
Max. Discharge Current (5S)	1200A
Short Circuit Current	3400A
Self Discharge	Approx. 2.5% per month @ 20°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)

Battery Dimensions



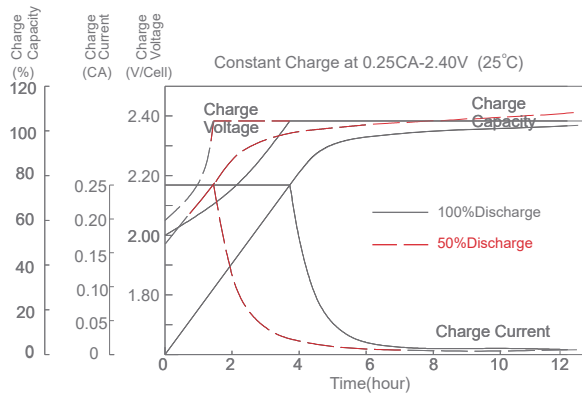
Constant Current Discharge Characteristics: Amps (25°C)

F.V/Time	5min	10min	15min	30min	1h	3h	4h	5h	10h	20h
1.60 V	468	356	303	197	119	50.5	40.3	33.5	18.9	10.2
1.67 V	417	328	286	188	116	49.9	39.7	33.1	18.6	10.0
1.70 V	372	298	270	181	113	49.3	39.3	32.8	18.4	9.71
1.75 V	323	277	250	175	111	48.6	38.8	32.4	18.2	9.53
1.80 V	286	252	233	167	108	47.6	38.0	31.6	18.0	9.36
1.85 V	245	226	213	158	102	46.1	36.9	30.8	17.4	9.18

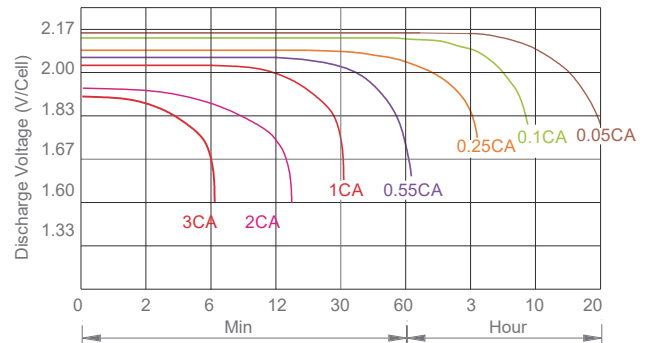
Constant Power Discharge Characteristics: W/Cell (25°C)

F.V/Time	5min	10min	15min	30min	1h	3h	4h	5h	10h	20h
1.60 V	822	640	553	364	222	85.8	68.7	57.5	32.9	17.7
1.67 V	744	596	525	349	217	85.4	68.2	57.1	32.6	17.5
1.70 V	672	547	501	339	214	84.9	68.0	57.0	32.4	17.2
1.75 V	592	514	470	330	211	84.3	67.8	56.8	32.3	17.0
1.80 V	530	472	442	318	207	83.4	66.8	55.9	31.9	16.8
1.85 V	462	430	407	303	200	81.3	65.5	55.0	31.2	16.5

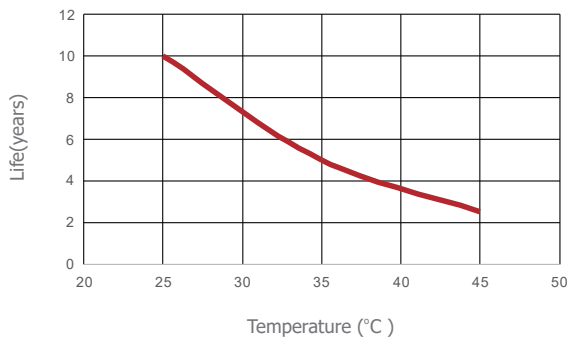
Charge Characteristic



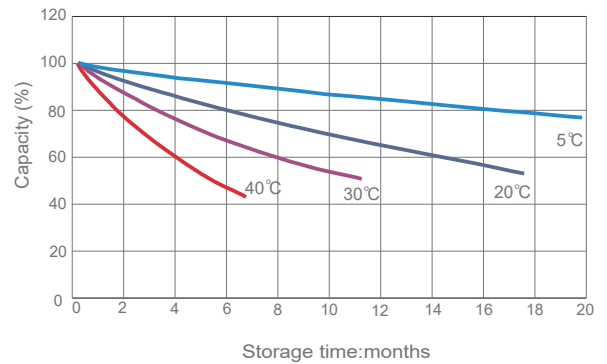
Discharge Characteristic (25°C)



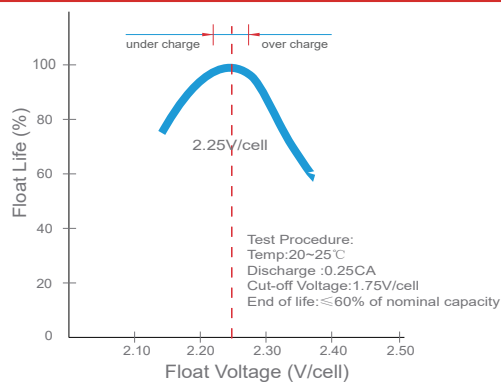
Temperature vs Float Life



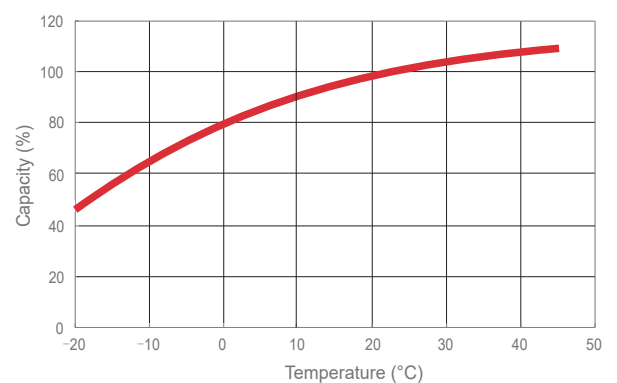
Self discharge characteristics



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	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$