KBL12120 12V 12Ah

The KAISE LONG LIFE Series consists in VRLA batteries - AGM technology (Absorbent Glass Mat), with a design life of 10 years, has been designed for different applications, such as UPS, electric and telecommunications applications that require a long useful life.

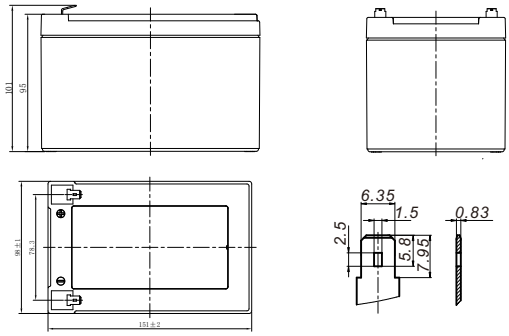
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	151±2 / 5.95
	Width (mm / inch)	98±1/ 3.86
	Height (mm / inch)	95±1 / 3.74
	Total Height (mm / inch)	101±2 / 3.98
Approx. Weight	(Kg / lbs)	3.85 / 8.49
Design Life	10 ~12 years	
Terminal	F2	
Container Material	ABS	
Rated Capacity	12.00Ah / 0.600A	(20hr, 1.75V/cell, 25ºC / 77ºF)
	10.65Ah / 2.13A	(5hr, 1.75V/cell, 25ºC / 77ºF)
	7.89Ah / 7.89A	(1hr, 1.60V/cell, 25ºC / 77ºF)
Max. Discharge Current	180A (5s)	
Internal Resistance	Approx 22.0mΩ	
Operating Temp. Range	Discharge : -15 ~ 50ºC (5 ~ 122ºF)	
	Charge : -20 ~ 40ºC (-4 ~ 104ºF)	
	Storage : -15 ~ 40ºC (5 ~ 104ºF)	
Nominal Operating Temp. Range	25 ± 3ºC (77 ± 5ºF)	
Cycle Use	Initial Charging Current less than 3.6A	
	Voltage: 14.4V ~ 15.0V at 25ºC (77ºF)	
	Temp. Coefficient: -30mV/ºC	
Standby Use	Initial Charging Current less than 3.6A	
	Voltage: 13.5V ~ 13.8V at 25ºC (77ºF)	
	Temp. Coefficient: -20mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Long Life Series batteries may be stored for up to 6 months at 25ºC (77ºF) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Constant Current Discharge (Amperes) at 25ºC (77ºF)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	25.1	19.7	12.4	7.36	3.08	2.11	1.14	0.595
1.75V	26.3	20.4	12.6	7.49	3.13	2.13	1.16	0.600
1.70V	27.6	21.1	12.9	7.62	3.17	2.16	1.17	0.607
1.65V	28.3	21.6	13.1	7.70	3.20	2.18	1.18	0.610
1.60V	30.0	22.6	13.5	7.89	3.27	2.22	1.20	0.619

Dimensions and Terminal (Unit: mm (inches))



Applications

UPS
Telecomunications equipment
Solar energy systems
Cable TV
Power station
Marine equipment
Military equipment
Emergency power systems
Railway systems

Certifications

ISO 9001 / ISO 14001

Discharge Current vs. Discharge Voltage

Final discharge voltage V/CELL	1,8	1,75	1,7	1,6
Discharge current (A)	I ≤ 0,1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

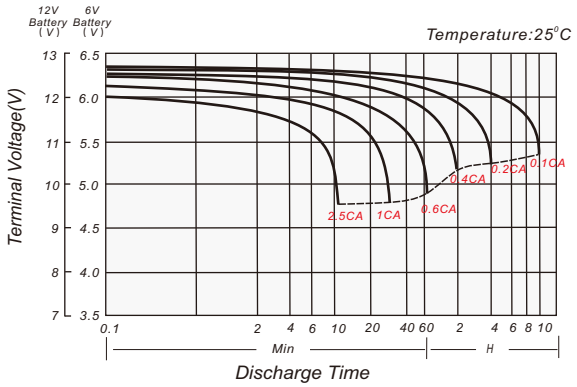
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	47.7	37.6	23.8	14.3	6.05	4.15	2.27	1.19
1.75V	49.8	38.8	24.2	14.5	6.12	4.20	2.29	1.20
1.70V	51.8	40.0	24.7	14.7	6.20	4.25	2.32	1.21
1.65V	53.0	40.7	25.0	14.8	6.25	4.28	2.33	1.22
1.60V	55.8	42.2	25.6	15.1	6.35	4.34	2.37	1.24

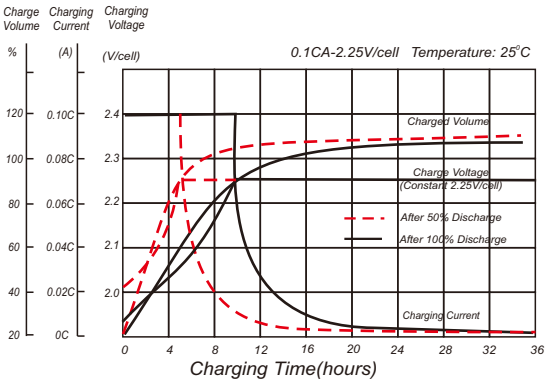
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBL12120 12V 12Ah

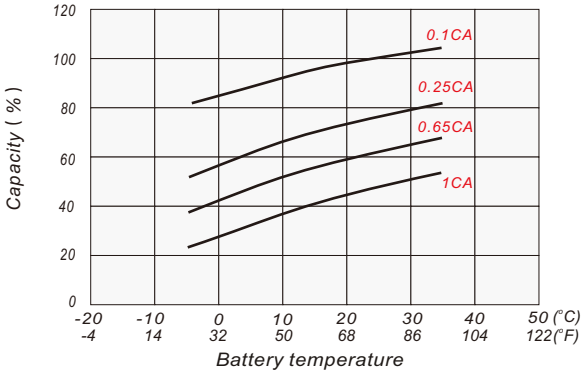
Discharge Characteristics



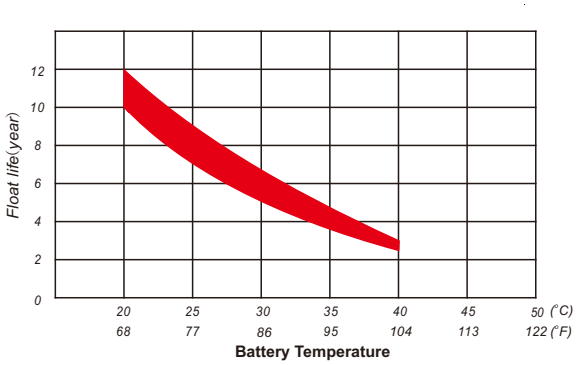
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.

2022/N1/L

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