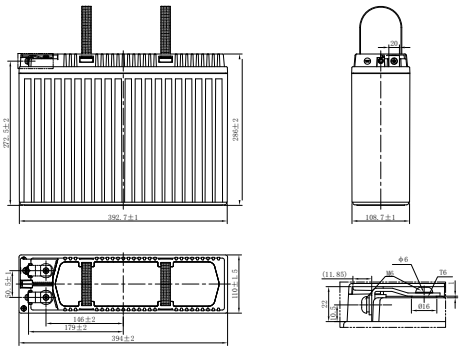
KBF121000 12V 100Ah

The Front Terminal Kaise batteries consists in VRLA batteries - with AGM technology (Absorbent Glass Mat), with a design life of 10-12 years. They are used mostly for the telecommunications industry, guaranteeing that in case of an electric power cut, the Kaise batteries immediately provide the necessary energy supply, as a backup energy system for the simple or most complex energy systems.

Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	394±2 / 15.5
	Width (mm / inch)	110±2 / 4.33
	Height (mm / inch)	286±2 / 11.3
	Total Height (mm / inch)	286±2 / 11.3
Approx. Weight	(Kg / lbs)	31.0 / 68.3
Design Life	12 years (25ºC)	
Terminal	M6	
Container Material	ABS (UL94 HB or V-0 optional)	
Rated Capacity	100.0Ah / 10.0A	(10hr, 1.80V / cell, 25ºC / 77ºF)
	86.5Ah / 17.3A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	63.4 Ah / 63.4 A	(1hr, 1.67V / cell, 25ºC / 77ºF)
	42.95 Ah / 171.8 A	(15min,1.67V / cell, 25ºC / 77ºF)
Short-circuit current	1900A (5s)	
Internal Resistance (25ºC)	Approx 5.5mΩ	
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 30.0A	
	Voltage: 14.1V ~ 14.4V at 25ºC (77ºF)	
	Temp. Coefficient: -30mV/ºC	
Standby Use	Initial Charging Current less than 30.0A	
	Voltage: 13.5V ~ 13.8V at 25ºC (77ºF)	
	Temp. Coefficient: -18mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Front Terminal 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	

Dimensions and Terminal (Unit: mm (inches))



Applications

Renewable Energy
Alarm systems
Electric Test Equipment
Emergency lighting systems
Marine equipment
Telecommunications 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 Current Discharge (Amperes) at 25ºC (77ºF)

Volts/cell	15min	20min	30min	45min	1h	3h	5h	10h
1.80V	149.0	129.0	93.6	78.6	57.7	25.6	16.9	10.0
1.75V	157.6	137.1	97.8	81.6	59.9	26.2	17.3	10.1
1.70V	166.6	144.4	102.1	83.9	62.1	27.0	17.7	10.2
1.67V	171.8	149.4	104.7	85.7	63.4	27.4	17.9	10.4
1.60V	184.1	153.2	110.6	87.0	66.4	28.4	18.5	10.6

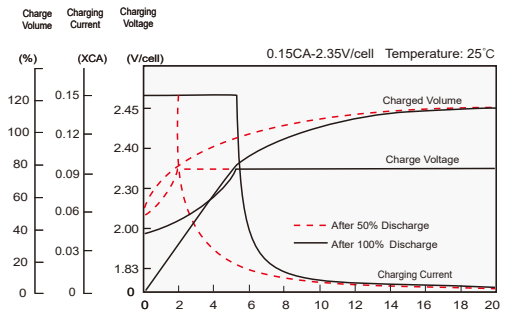
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	15min	20min	30min	45min	1h	3h	5h
1.80V	283.2	248.0	179.3	153.4	111.5	49.9	33.2
1.75V	296.5	262.2	185.8	158.8	114.8	51.0	33.9
1.70V	309.8	273.3	192.2	162.0	118.2	52.3	34.6
1.67V	317.8	279.2	196.0	163.9	120.0	52.9	34.9
1.60V	334.3	282.3	204.5	164.7	124.7	54.5	35.8

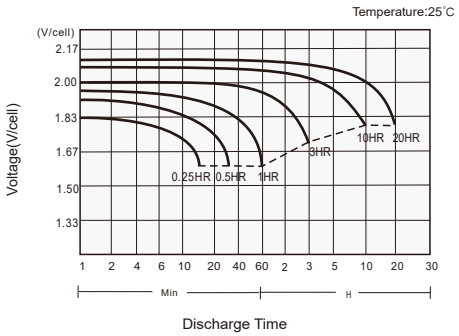
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBF121000 12V 100Ah

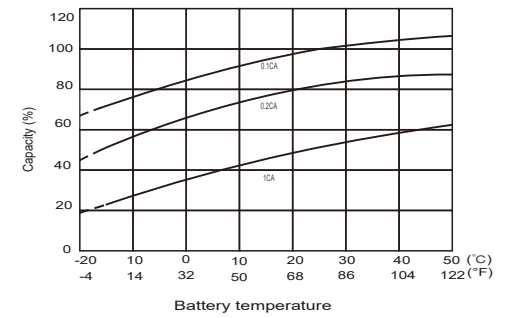
Float Charging Characteristics



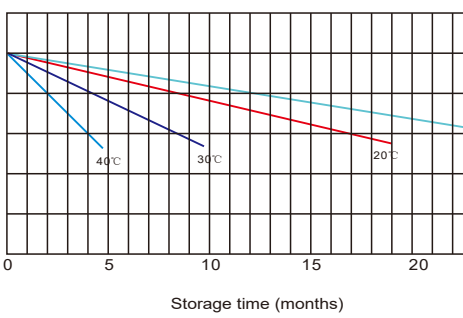
Discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



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

2024/V1/L

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