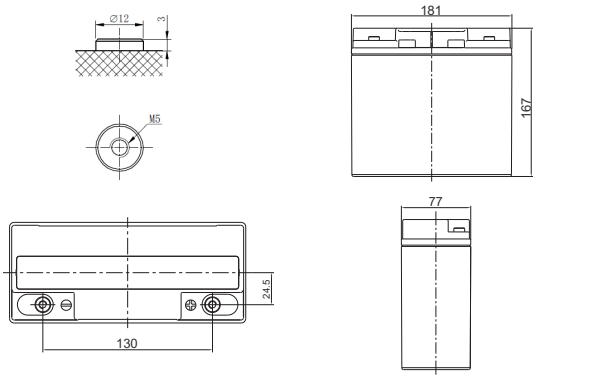
KB12200 12V 20Ah

The KB Standard series consists in VRLA batteries - AGM technology (Absorbent Glass Mat), with a design life of 3-5 years and it is designed for general applications such as UPS, telecommunications and electrical applications.

Dimensions and Terminal (Unit: mm (inches))



Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	181 / 7.13
	Width (mm / inch)	77 / 3.03
	Height (mm / inch)	167 / 6.57
	Total Height (mm / inch)	167 / 6.57
Approx Weight	(Kg / lbs)	5.40 / 11.91
Design Life	5 years	
Terminal	M5	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	20.0Ah / 1.00A	(20hr, 1.75V / cell, 25ºC / 77ºF)
	18.9Ah / 1.89A	(10hr, 1.75V / cell, 25ºC / 77ºF)
	17.5Ah / 3.49A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	12.22Ah / 12.22A	(1hr, 1.60V / cell, 25ºC / 77ºF)
Max. Discharge Current	200A (5s)	
Internal Resistance	Approx 16mΩ	
Operating Temp. Range	Discharge : -20 ~ 60ºC (-4 ~140ºF)	
	Charge : 0 ~ 50ºC (32 ~ 122ºF)	
	Storage : -20 ~ 60ºC (-20 ~ 140ºF)	
Nominal Operating Temp. Range	25 ± 5ºC (77 ± 41ºF)	
Cycle Use	Initial Charging Current less than 6.0A	
	Voltage: 14.6V ~ 14.8V at 25ºC (77ºF)	
	Temp. Coefficient: -4mV/ºC	
Standby Use	Initial Charging Current less than 6.0A	
	Voltage: 13.7V ~ 13.9V at 25ºC (77ºF)	
	Temp. Coefficient: -3mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Standard 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.	

Applications

Alarm systems
Cable television
Communications Equipment
Control Equipment
Computers
Electronic Cash Registers
Electric Test Equipment
Emergency lighting systems
Fire & Security
Geophysical equipment
Marine equipment
Medical equipment
Micro processor based office machines
Portable cine & Video lights
Solar powered systems
Telecommunications systems
Television & Video recorders
Toys
Uninterruptible power supply systems
Vending machines

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

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

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	50.09	38.66	29.83	18.67	10.58	4.999	3.399	1.869	0.990
1.75V	57.04	42.70	32.30	19.53	11.00	5.159	3.489	1.893	1.000
1.70V	63.67	46.65	34.71	20.43	11.42	5.317	3.579	1.919	1.012
1.65V	70.56	50.68	37.06	21.38	11.80	5.466	3.675	1.948	1.025
1.60V	75.88	53.63	38.77	22.27	12.22	5.640	3.773	1.972	1.041

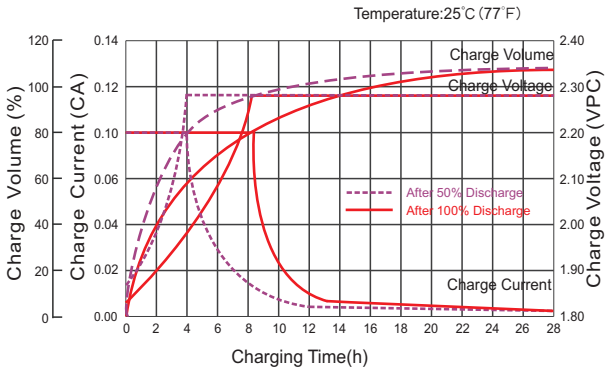
Discharge Constant Power (Watts per cell) at 77ºF (25ºC)

Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	8h
1.80V	89.68	70.65	55.26	35.31	20.36	12.64	9.710	6.646	4.514
1.75V	100.0	76.71	59.01	36.58	21.04	13.04	9.981	6.798	4.582
1.70V	109.2	82.32	62.51	37.88	21.71	13.45	10.24	6.949	4.637
1.65V	118.3	87.80	65.75	39.23	22.30	13.83	10.48	7.110	4.699
1.60V	125.8	91.16	67.77	40.44	22.96	14.22	10.77	7.272	4.742

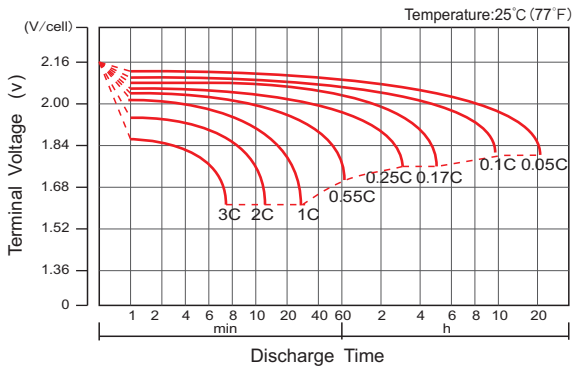
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB12200 12V 20Ah

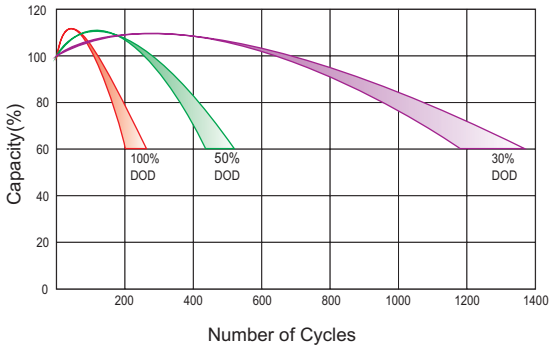
Charge Characteristic Curve For Standby Use



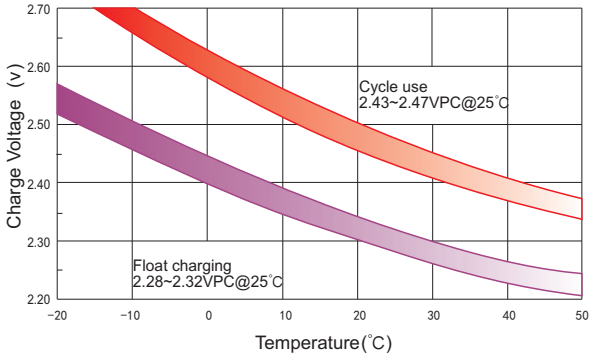
Discharge Characteristics Curve



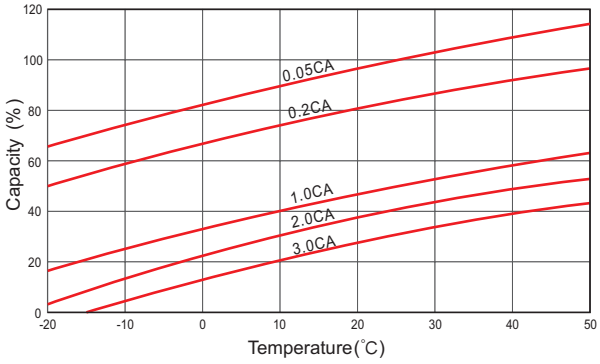
Cycle Life In Relation To Depth Of Discharge



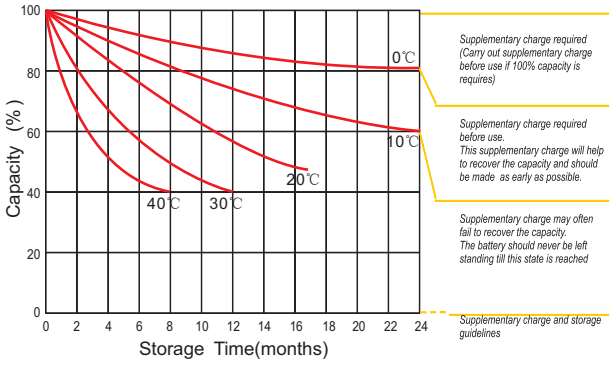
Relationship Between Charging Voltage And Temperature



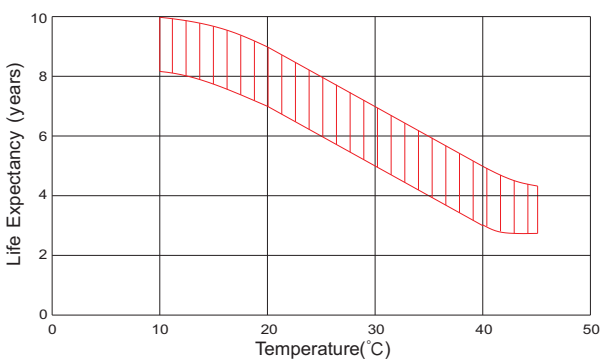
Temperature Effects On Capacity



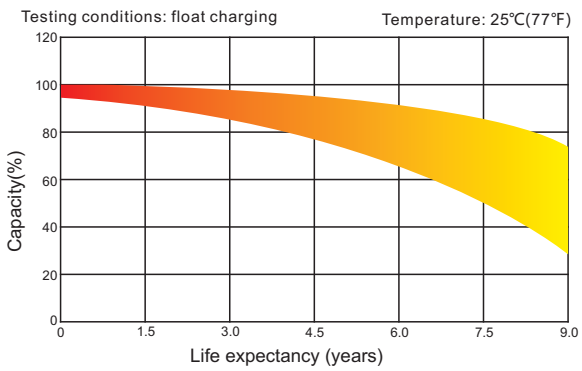
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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

2024/V/R

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