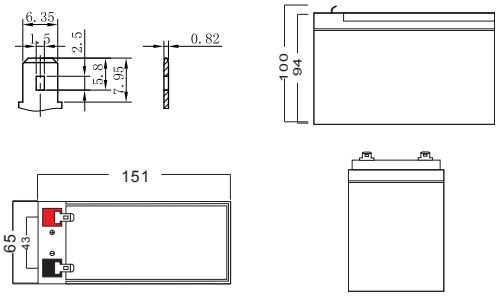
KB1290 12V 9.0Ah

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.

Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	151±2 / 5.95
	Width (mm / inch)	65±1 / 2.56
	Height (mm / inch)	94±1 / 3.70
	Total Height (mm / inch)	100±1 / 3.94
Approx Weight	(Kg / lbs)	2.50 / 5.52
Design Life	5 years	
Terminal	F2	
Container Material	ABS-UL94HB (FR: flame retardant UL-94V0 on request)	
Rated Capacity	9.00Ah / 0.450A	(20hr, 1.75V / cell, 25ºC / 77ºF)
	6.99Ah / 2.33A	(3hr, 1.75V / cell, 25ºC / 77ºF)
	5.94Ah / 5.94A	(1hr, 1.60V / cell, 25ºC / 77ºF)(
Max. Discharge Current	135A (5s)	
Internal Resistance	Approx 20.0mΩ	
Operating Temp. Range	Discharge : -20 ~ 50ºC (-4 ~122ºF)	
	Charge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Storage : -20 ~ 50ºC (-4 ~ 122ºF)	
Charge Current	Max. 2.25A	
Cycle Use	Voltage: 14.4V ~ 15.0V at 25ºC (77ºF)	
	Temp. Coefficient: -30mV/ºC	
Standby Use	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 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.	

Dimensions and Terminal (Unit: mm (inches))



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 25ºC (77ºF)

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	24.8	18.8	12.9	9.90	5.03	2.21	1.50	0.828	0.432
1.75V	26.9	20.0	13.9	10.2	5.21	2.33	1.57	0.846	0.450
1.70V	29.0	21.0	14.9	10.5	5.40	2.37	1.64	0.864	0.459
1.67V	35.4	22.3	15.9	10.8	5.58	2.41	1.66	0.882	0.468
1.60V	35.6	23.3	17.4	11.4	5.94	2.48	1.69	0.891	0.477

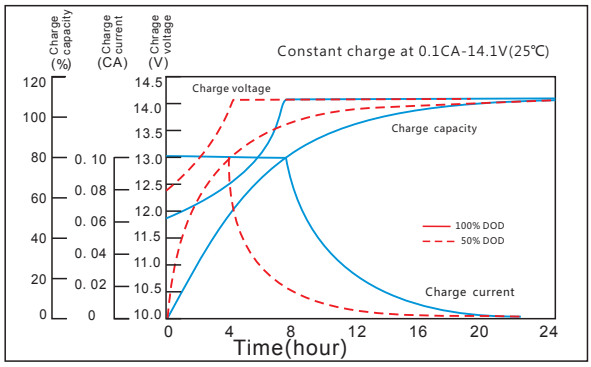
Discharge Constant Power (Watts per cell) at 25ºC (77ºF)

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	45.9	36.2	26.3	18.7	9.51	4.31	2.91	1.61	0.887
1.75V	51.2	37.4	27.5	18.8	9.65	4.43	2.99	1.64	0.893
1.70V	56.4	38.6	28.5	19.0	9.93	4.49	3.05	1.68	0.912
1.67V	61.7	39.8	29.9	19.1	10.2	4.56	3.14	1.69	0.920
1.60V	66.9	42.0	31.8	19.2	10.9	4.70	3.20	1.73	0.945

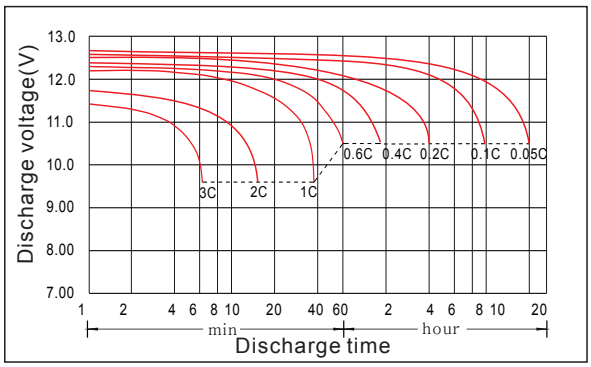
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB1290 12V 9.0Ah

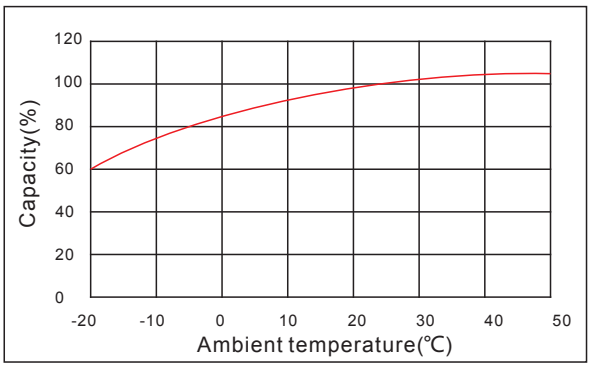
Charging Characteristics



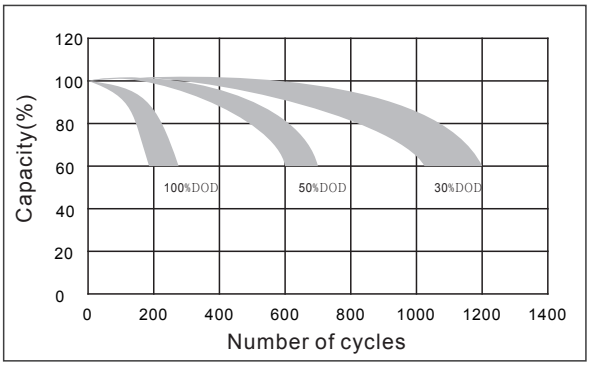
Discharge Characteristics



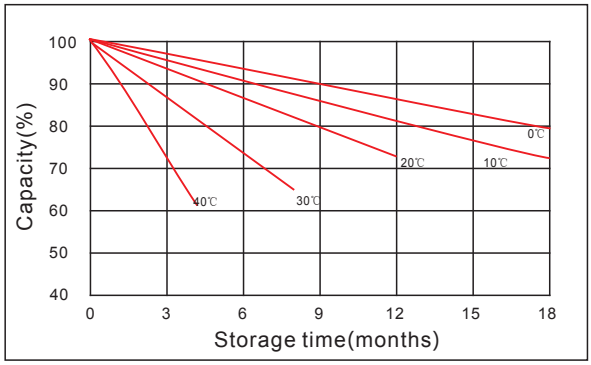
Temperature Effects in Relation to Battery Capacity



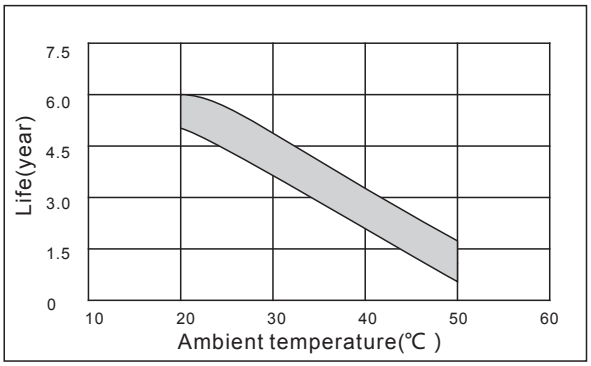
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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