KB1272 12V 7.2Ah

The KB Standard series consists in VRLA batteries - AGM technology (Absorbent Glass Mat), with a design life of 6-8 years and it is designed for general applications such as UPS, telecommunications and electrical applications.

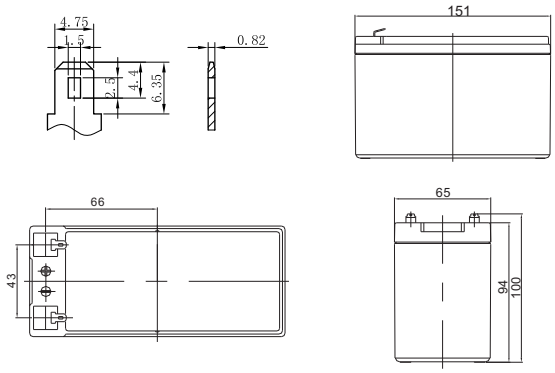
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	151 / 5.94
	Width (mm / inch)	65 / 2.56
	Height (mm / inch)	94 / 3.70
	Total Height (mm / inch)	100 / 3.94
Approx Weight	(Kg / lbs)	2.15 / 4.74
Design Life	6~8 years (Float charging)	
Terminal	F1	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	7.26Ah / 0.363A	(20hr, 1.75V / cell, 25ºC / 77ºF)
	6.93Ah / 0.693A	(10hr, 1.75V / cell, 25ºC / 77ºF)
	6.31Ah / 1.261A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	4.593Ah / 4.593A	(1hr, 1.60V / cell, 25ºC / 77ºF)
Max. Discharge Current	72A (5s)	
Internal Resistance	Approx 25mΩ	
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 2.16A	
	Voltage: 14.6V ~ 14.8V at 25ºC (77ºF)	
	Temp. Coefficient: -4mV/ºC	
Standby Use	Initial Charging Current less than 2.16A	
	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.	

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

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	22.28	15.19	11.49	6.850	4.053	1.802	1.226	0.676	0.355
1.75V	24.45	16.39	12.29	7.241	4.247	1.863	1.261	0.693	0.363
1.70V	26.17	17.33	12.90	7.543	4.395	1.909	1.288	0.705	0.368
1.65V	27.52	18.06	13.37	7.774	4.508	1.944	1.309	0.714	0.372
1.60V	28.55	18.62	13.73	7.948	4.593	1.970	1.324	0.721	0.375

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

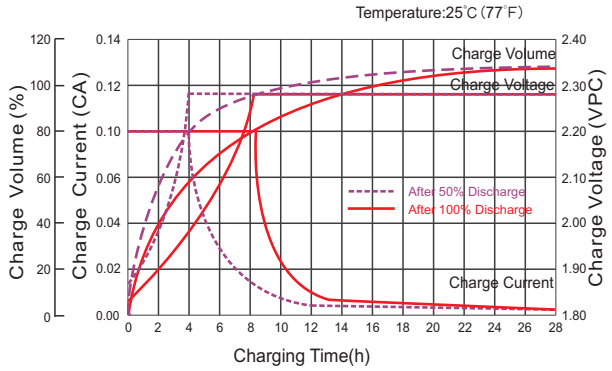
Discharge Constant Power (Watts per cell) at 77ºF (25ºC)

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	41.22	28.18	21.61	13.15	7.88	3.55	2.43	1.36	0.71
1.75V	44.47	29.89	22.78	13.77	8.21	3.66	2.49	1.39	0.73
1.70V	46.76	31.04	23.58	14.19	8.46	3.73	2.54	1.41	0.74
1.65V	48.62	31.99	24.23	14.55	8.64	3.79	2.57	1.43	0.74
1.60V	49.13	32.12	24.37	14.65	8.72	3.82	2.59	1.44	0.75

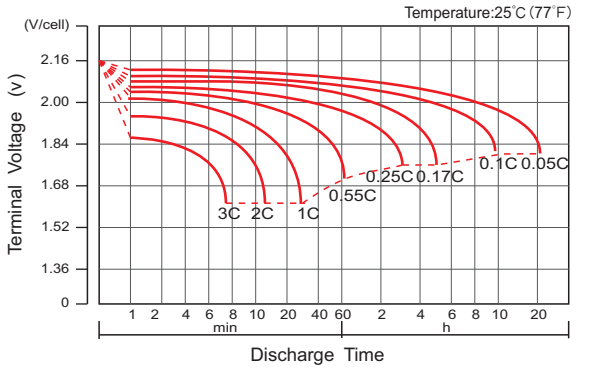
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB1272 12V 7.2Ah

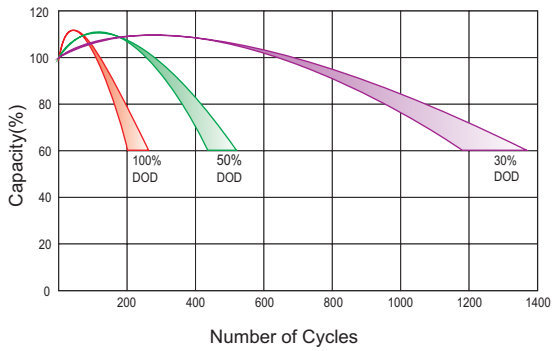
Charging Characteristics (float use)



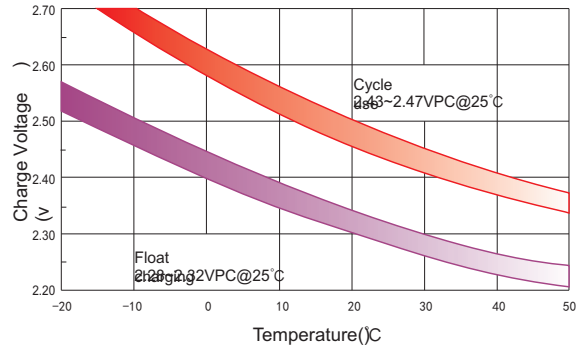
Discharge Characteristics Curve



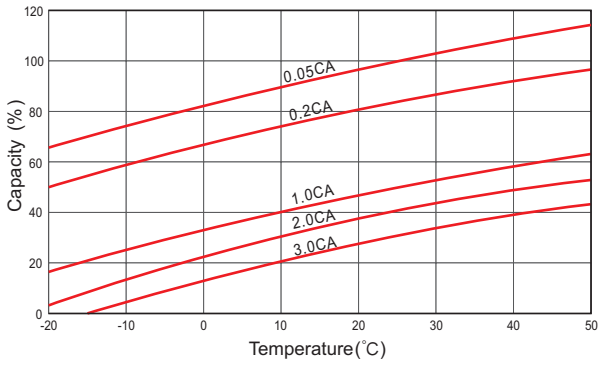
Cycle Life In Relation To Depth Of Discharge



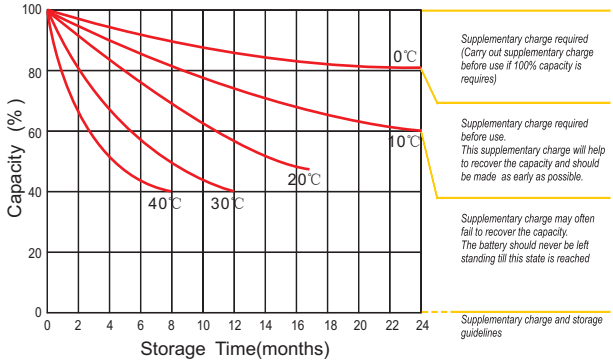
Relationship Between Charging Voltage And Temperature



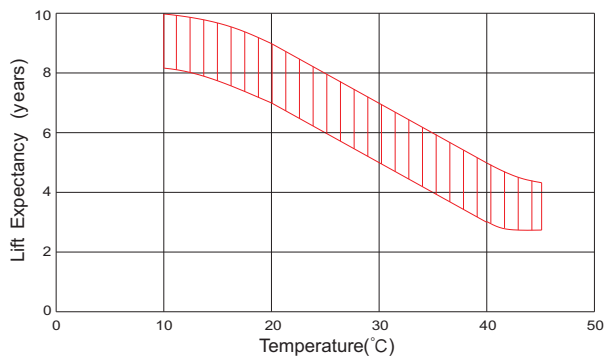
Temperature Effects On Capacity



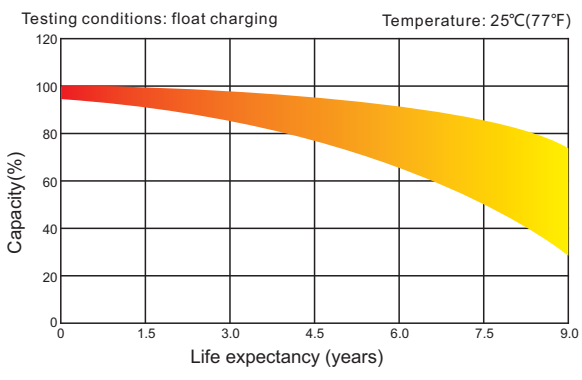
Storage Characteristics



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

Contacto
customer.energy@tempelgroup.com
www.tempelgroup.com