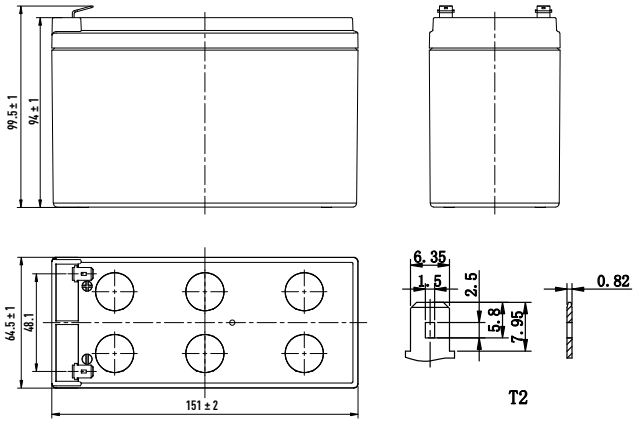
KBL1272WP 12V 7.2Ah

The KAISE Wind Power series consists in VRLA batteries - AGM technology (Absorbent Glass Mat), that has been designed for windmill applications that require a special use during the life of battery.

Dimensions and Terminal (units: mm)



Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	151 ± 2/ 5.95
	Width (mm / inch)	64.5 ± 1/ 2.54
	Height (mm / inch)	94 ± 1/ 3.70
	Total Height (mm / inch)	99.5 ± 1/ 3.92
Approx. Weight	(Kg / lbs)	2.50 / 5.51
Terminal	F2 (T2)	
Container Material	ABS - Flame retardant V0	
Rated Capacity	7.20Ah / 0.360A	(20hr, 1.75V / cell, 25ºC / 77ºF)
	6.81Ah / 0.681A	(10hr, 1.75V / cell, 25ºC / 77ºF)
	6.20Ah / 1.24A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	4.77Ah / 4.77A	(1hr, 1.60V / cell, 25ºC / 77ºF)
Max. Discharge Current	108A (5s)	
Internal Resistance	Approx 28 mΩ	
Operating Temp.Range	Discharge : -15 ~ 50ºC (5 ~ 122ºF) Charge : 0 ~ 40ºC (32 ~ 104ºF) Storage : -15 ~ 40ºC (5 ~ 104ºF)	
Nominal Operating Temp. Range	25 ± 3ºC (77 ± 5ºF)	
Cycle Use	Initial Charging Current less than 2.1A. Voltage: 1 4.4V~15.0V at 25ºC (77ºF) Temp. Coefficient: -30mV/ºC	
Standby Use	Initial Charging Current less than 2.1A Current Voltage. 13.5V~13.8V at 25º C(77º F) Temp. Coefficient: -20mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	The batteries may be stored for up 6 months at 25ºC/77ºF and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- Windmill applications (Pitch control motors & UPS)

Special Design Advantages

- The terminals are sealed with colored glue to ensure the tightness of the battery.
- The safety valve is equipped with explosion-proof sheet to prevent leakage of liquid when the battery is rotating or shaking.
- Special thick lead plates.

Design Float Life Use

- 10 ~12 years at 20ºC (approx.)

Certifications

ISO 9001
ISO 14001

CE UL IEC

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 77ºF (25ºC)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	16.3	12.4	7.48	4.42	1.81	1.22	0.674	0.356
1.75V	16.9	12.8	7.67	4.51	1.84	1.24	0.681	0.360
1.70V	17.6	13.2	7.87	4.59	1.86	1.26	0.688	0.363
1.67V	18.1	13.5	8.00	4.66	1.88	1.27	0.693	0.366
1.60V	18.9	14.0	8.22	4.77	1.92	1.29	0.702	0.370

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

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	30.8	23.5	14.4	8.56	3.55	2.41	1.34	0.712
1.75V	31.8	24.2	14.7	8.71	3.59	2.44	1.35	0.720
1.70V	32.8	24.8	15.0	8.84	3.64	2.47	1.36	0.726
1.67V	33.5	25.4	15.2	8.96	3.67	2.49	1.37	0.732
1.60V	34.5	26.0	15.6	9.12	3.73	2.52	1.39	0.740

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

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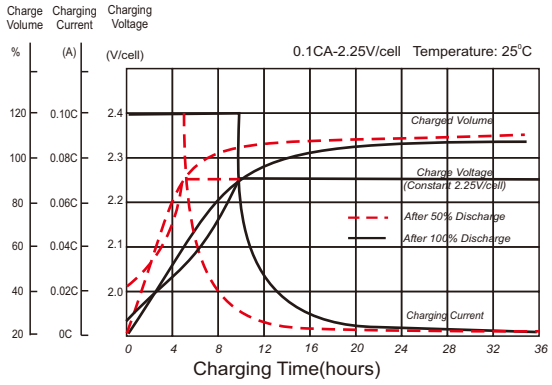
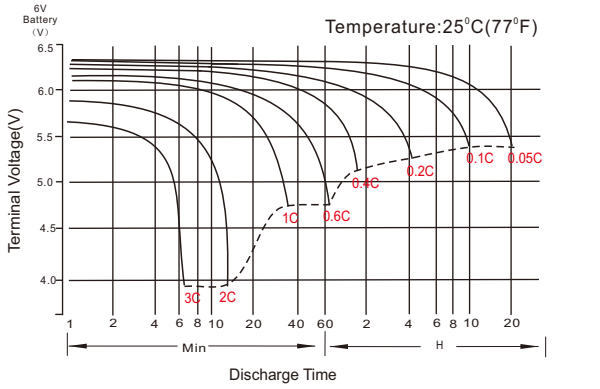
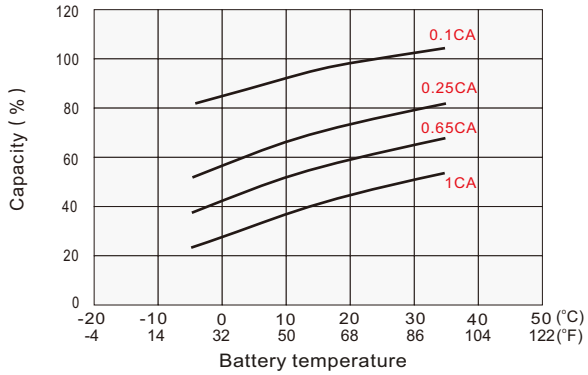
Charging Characteristics (float use)



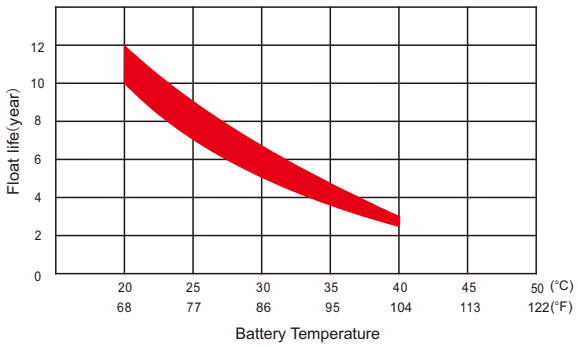
Discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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

2020/V/L

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