

KBL12330

12V 33Ah



The Kaise Long Life series, featuring VRLA AGM technology and a 10-year design life, has been developed for a wide range of applications such as UPS systems, telecommunications, electrical installations, and in general, any application requiring long service life and high reliability.



Specifications

Rated Voltage	12V	
Nominal Capacity	33Ah (C ₂₀ , 1.75V/cell)	
Dimension	Length	195mm (7.68inches)
	Width	130mm (5.12inches)
	Container Height	164mm (6.4inches)
	Total Height	167mm (6.57inches)
Approx Weight	10.5kg (23.1lbs)	
Terminal	T6-I/T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	825A	
Internal Resistance (25°C)	Approx 12 mΩ (Fully charged)	
Operating Temp. Range	Discharge : -15 ~ 50°C (5 ~ 122°F)	
	Charge : -20 ~ 40°C (-4 ~ 104°F)	
	Storage : -15 ~ 40°C (5 ~ 104°F)	
Nominal Operating Temp. Range	25± 3°C (77± 5°F)	
Max. Charging Current (25°C)	0.3C	
Charge voltage (25 °c)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coefficient	-3mV/cell/°c	
	-5 mV/cell/°c	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). KBL series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

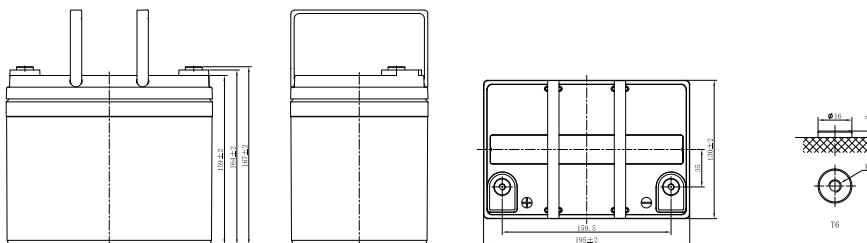
General Features

- 10 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in Kaise® IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

Layout



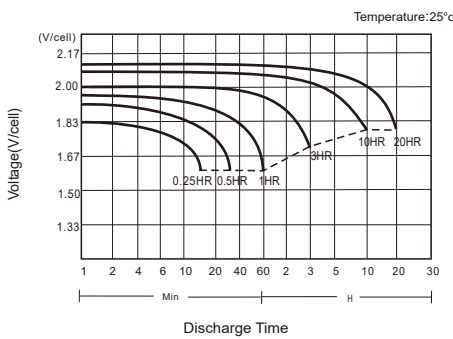
Constant Current Discharge (Amperes) at 25°C (77°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	92.4	63.5	49.8	41.0	30.8	22.9	19.0	14.2	11.3	8.15	6.50	5.53	4.73	3.73	3.05	1.61
1.80V/cell	99.3	67.4	52.2	42.7	31.8	23.5	19.5	14.5	11.5	8.29	6.59	5.61	4.81	3.78	3.09	1.63
1.75V/cell	104.7	70.1	54.0	43.9	32.6	24.0	19.9	14.7	11.7	8.42	6.68	5.68	4.86	3.82	3.12	1.65
1.70V/cell	109.6	72.9	55.8	45.1	33.4	24.5	20.3	15.0	11.9	8.54	6.77	5.76	4.92	3.86	3.15	1.66
1.67V/cell	113.4	74.9	57.1	46.1	34.0	24.9	20.6	15.2	12.0	8.62	6.84	5.81	4.97	3.90	3.18	1.68
1.60V/cell	120.3	78.1	59.1	47.4	34.9	25.6	21.0	15.5	12.3	8.78	6.96	5.90	5.04	3.95	3.22	1.70

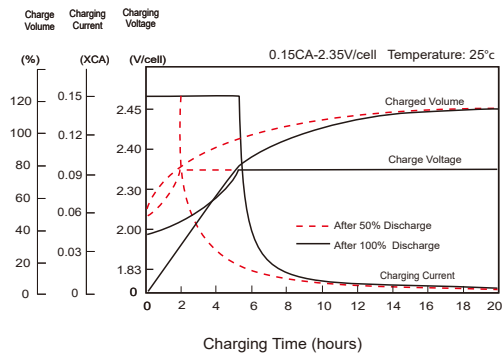
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V./Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	174.7	120.9	95.3	79.0	59.5	44.4	37.0	27.7	22.1	16.0	12.8	10.9	9.37	7.39	6.06	3.23
1.80V/cell	186.1	127.3	99.4	81.7	61.1	45.4	37.8	28.1	22.5	16.3	13.0	11.1	9.50	7.49	6.14	3.26
1.75V/cell	194.0	131.5	102.1	83.6	62.4	46.2	38.4	28.6	22.8	16.5	13.1	11.2	9.60	7.57	6.19	3.30
1.70V/cell	201.1	135.8	104.8	85.5	63.7	47.1	39.0	29.0	23.1	16.7	13.3	11.3	9.70	7.64	6.25	3.33
1.67V/cell	206.4	138.8	107.1	87.1	64.7	47.7	39.5	29.3	23.3	16.8	13.4	11.4	9.78	7.70	6.29	3.35
1.60V/cell	214.7	142.9	110.0	89.2	66.1	48.6	40.2	29.8	23.7	17.1	13.6	11.6	9.89	7.80	6.37	3.39

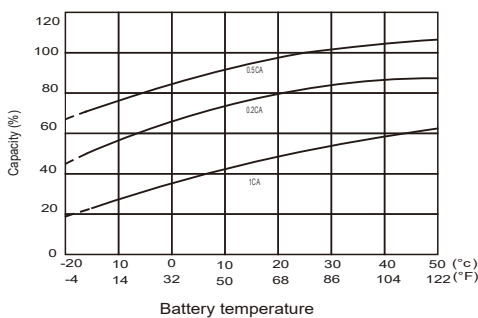
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

