

KBL12330 12V 33Ah



The KAISE LONG LIFE Series 10 years has been designed for different applications, such as UPS, electric and telecommunications applications that require a long useful life.



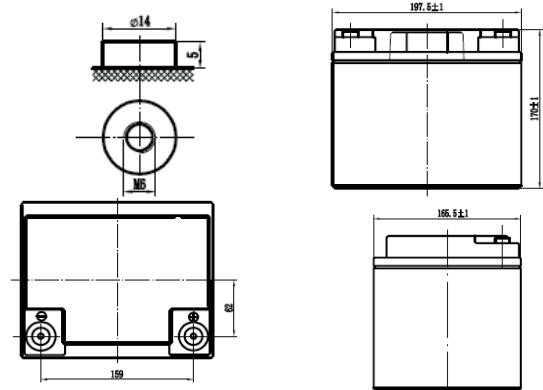
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	195 / 7.68
	Width (mm / inch)	130 / 5.12
	Height (mm / inch)	155 / 6.10
	Total Height (mm / inch)	168 / 6.61
Approx. Weight (Kg / lbs)	11.0 / 24.3	
Design Life	10 years	
Terminal	M6	
Container Material	ABS	
Rated Capacity	33.0Ah / 3.30A	(10hr, 10.8V/cell, 25°C / 77°F)
	27.9Ah / 5.58A	(5hr, 10.5V/cell, 25°C / 77°F)
	22.3Ah / 22.3A	(1hr, 9.6V/cell, 25°C / 77°F)
Max. Discharge Current	330A (5s)	
Internal Resistance	Approx 10mΩ	
Operating Temp. Range	Discharge : -20 ~ 60°C (-4 ~ 140°F)	
	Charge : -10 ~ 60°C (14 ~ 140°F)	
	Storage : -20 ~ 60°C (-4 ~ 140°F)	
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current less than 9.9A	
	Voltage: 2.40VPC ~ 2.45VPC at 25°C (77°F)	
	Temp. Coefficient: -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	2.20VPC ~ 2.30VPC at 25°C (77°F)	
	Temp. Coefficient: -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Fully charged Kaise Long Life Series batteries may be stored for 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.	

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

Volts/cell	10min	15min	30min	1h	3h	5h	10h
1.80V	60.0	49.5	31.9	19.8	8.18	5.50	3.30
1.75V	69.0	52.0	32.8	20.3	8.25	5.58	3.31
1.70V	73.0	54.5	33.2	21.2	8.45	6.15	3.32
1.65V	77.3	59.4	36.3	21.9	8.97	6.25	3.35
1.60V	80.2	61.5	37.0	22.3	9.08	6.30	3.36

Dimensions and Terminal (Unit: mm (inches))



Applications

- UPS
- Telecommunications equipment
- Solar energy systems
- Cable TV
- Power station
- Marine equipment
- Military equipment
- Emergency power systems
- Railway systems

Certifications

ISO 9001:2008 ISO 14001:2008



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

Volts/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.80V	116	97.9	61.0	48.8	38.3	21.0	15.2	11.0
1.75V	132	103	62.7	49.1	39.1	21.8	16.0	11.3
1.70V	136	107	64.5	51.2	39.9	22.6	16.8	11.5
1.65V	145	110	69.3	53.2	40.5	23.1	17.3	11.9
1.60V	150	117	72.4	53.8	40.9	23.3	17.4	12.2

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

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

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