

KBL12800 12V 80Ah



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.

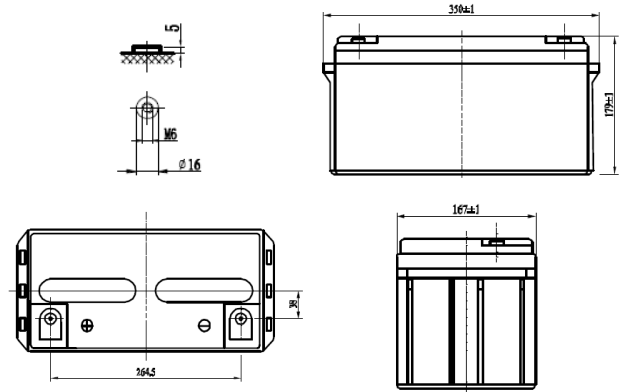
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	350 / 13.8
	Width (mm / inch)	167 / 6.57
	Height (mm / inch)	179 / 7.05
	Total Height (mm / inch)	179 / 7.05
Approx. Weight (Kg / lbs)	22.5 / 49.6	
Design Life	10 years	
Terminal	M6	
Container Material	ABS	
Rated Capacity	81.0Ah / 8.10A	(10hr, 1.70V/cell, 25°C/77°F)
	73.5Ah / 14.7A	(5hr, 1.70V/cell, 25°C/77°F)
	49.8Ah / 49.8A	(1hr, 1.70V/cell, 25°C/77°F)
Max. Discharge Current	750A (5s)	
Internal Resistance	Approx 6.5mΩ	
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 24A.	
	Voltage: 2.35VPC ~ 2.4VPC at 25°C (77°F)	
	Temp. Coefficient: -30mV/°C	
Standby Use	Initial Charging Current less than 24A.	
	2.25VPC ~ 2.30VPC at 25°C (77°F)	
	Temp. Coefficient: -20mV/°C	
Capacity affected by	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	24h
1.80V	149	118	75	46.3	20.7	14.1	8.00	3.61
1.75V	159	126	77.6	47.1	21.8	14.4	8.05	3.63
1.70V	168	132	80.3	49.8	22.4	14.7	8.10	3.65
1.65V	178	137	83.0	51.6	22.5	14.7	8.15	3.70
1.60V	188	149	87.3	53.7	22.7	15.0	8.20	3.72

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

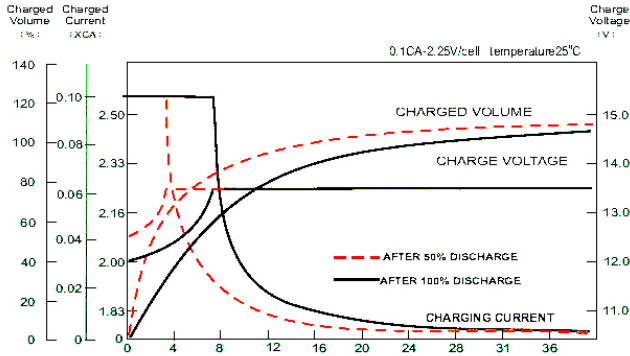
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

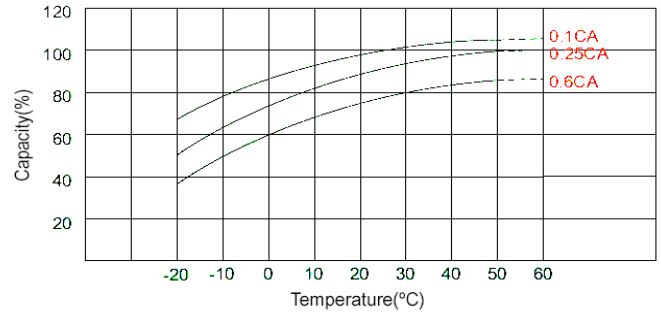
Volts/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.80V	349	218	146	111	88.5	51.4	39.0	26.4
1.75V	368	232	149	114	92.3	53.0	39.9	26.8
1.70V	390	246	151	117	93.8	53.7	40.4	27.0
1.65V	420	250	157	122	97.8	55.3	41.1	27.4
1.60V	433	258	165	124	98.6	56.5	42.5	27.9

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

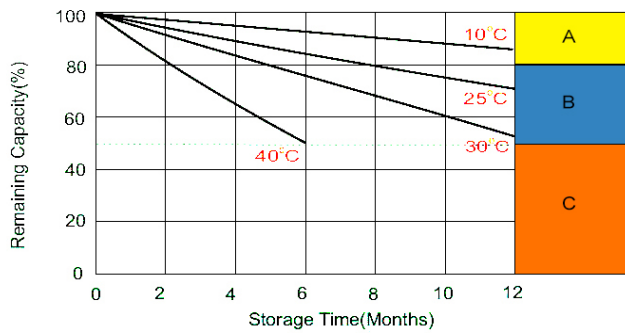
Charging Characteristics (cycle use)



Temperature Effects in Relation to Battery Capacity

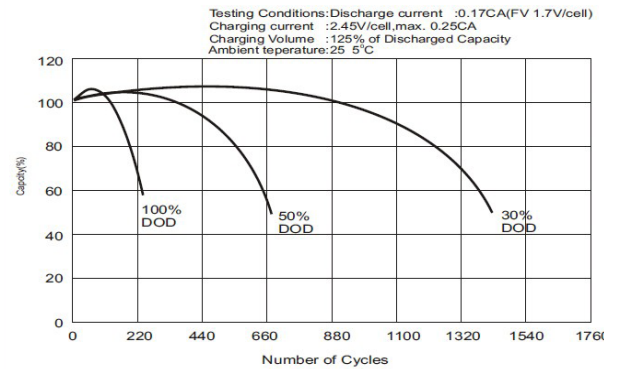


Self Discharge Characteristics



- A** No supplementary charge required
(carry out supplementary charge before use if 100% capacity is required)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25 CA and constant voltage 2.25V / cell.
 2. Charged for above 20 hours limited current 0.25CA and constant voltage 2.45V / cell.
 3. Charged for 8-10 hours at limited current 0.05 CA.
- C** Supplementary charge often fail to recover the capacity.
The battery should never be left standing till this is reached.

Cycle Life in Relation to Depth of Discharge



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

