

KBCG12600 12V 60Ah



Gel battery shows some distinctive advantages over flooded battery or AGM battery, such as super thermal stability, high deep discharge capability, good recovery from deep discharge, even if the battery is left discharged for three days, it will recover to 100% of capacity. With the above-mentioned advantages, the gel battery has long service life, specially suitable for motive power applications, such as golf trailer, scrubber, forklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.



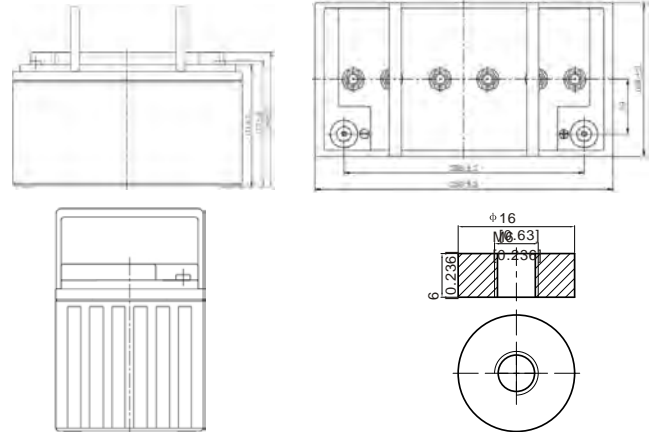
Performance Characteristics

Nominal Voltage	12V		
Design Life	12 years		
Dimensions	Length (mm / inch)	259 / 10.2	
	Width (mm / inch)	168 / 6.61	
	Height (mm / inch)	190 / 7.48	
	Total Height (mm / inch)	190 / 7.48	
Approx. Weight	(Kg / lbs)	19.7 / 43.4	
	Terminal	M6	
Container Material	ABS		
Rated Capacity	60.0 AH / 3.00A	(20hr, 1.80V / cell, 25°C / 77°F)	
	55.4AH / 5.54A	(10hr, 1.80V / cell, 25°C / 77°F)	
	48.55AH / 9.71A	(5hr, 1.75V / cell, 25°C / 77°F)	
	35.6Ah / 35.6A	(1hr, 1.60 / cell, 25°C / 77°F)	
	Max. Discharge Current	600A (5s)	
Internal Resistance	Approx 8.2mΩ		
Operating Temp. Range	Discharge :	-20 ~ 55°C (-4 ~ 131°F)	
	Charge :	0 ~ 40°C (32 ~ 104°F)	
	Storage :	-20 ~ 50°C (-4 ~ 122°F)	
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)		
Cycle Use	Cycle Use	Maximum charging current 12A	
	Voltage:	14.4V ~ 15.0V at 25°C (77° F)	
	Temp. Coefficient:	-30mV/°C	
Standby Use	No limit on Initial Charging		
	Current Voltage	13.5V ~13.8V 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 Gel Series batteries may be stored for up to 9 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		

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

Volts/cell	20min	30min	45min	1h	3h	5h	10h	20h
1.80V	60.1	46.8	35.9	29.7	13.6	9.41	5.54	3.00
1.75V	66.8	51.0	38.3	31.4	14.3	9.71	5.62	3.13
1.70V	71.6	54.0	40.0	32.8	14.7	9.98	5.71	3.09
1.67V	74.7	56.1	41.6	34.0	15.2	10.2	5.80	3.13
1.60V	79.9	59.4	43.9	35.6	15.7	10.5	5.89	3.16

Dimensions and Terminal (Unit: mm (inches))



Applications

- Railway and marine systems
- Electric tools
- Vehicle in place of walking
- Lawn mowers
- Golf trolleys and golf cart
- Electric toys
- Portable power Wheelchairs
- Medical equipments.

Certifications

ISO 9001:2008 ISO 14001:2008



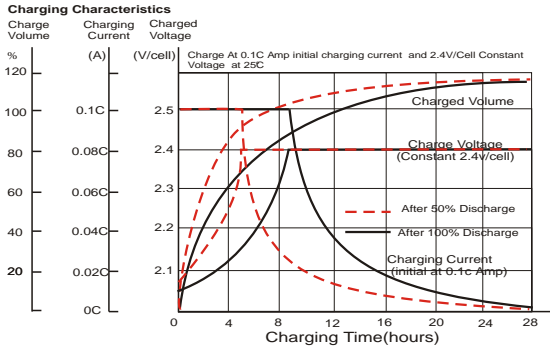
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

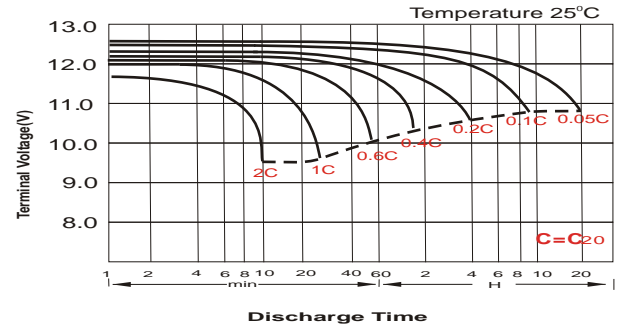
Volts/cell	20min	30min	45min	1h	3h	5h	10h	20h
1.80V	113.1	89.1	69.0	57.4	26.5	18.5	11.0	5.99
1.75V	124.5	96.3	73.1	60.5	27.7	19.0	11.1	6.07
1.70V	132.5	101.4	76.1	62.9	28.6	19.5	11.3	6.16
1.67V	137.0	104.6	78.6	64.8	29.5	19.9	11.5	6.22
1.60V	145.1	109.7	82.4	67.5	30.7	20.4	11.6	6.27

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

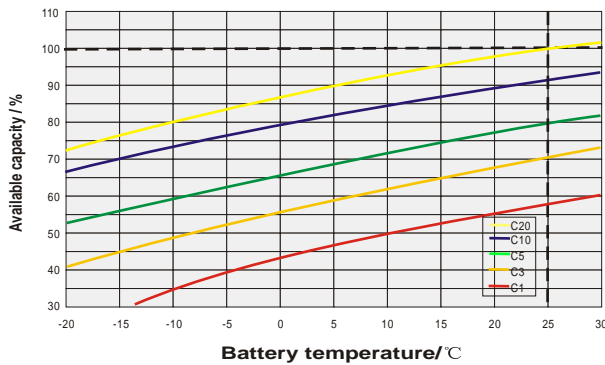
Float Charging Characteristics



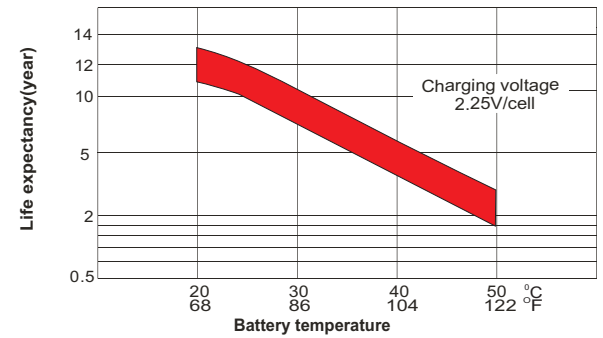
Discharge Characteristics



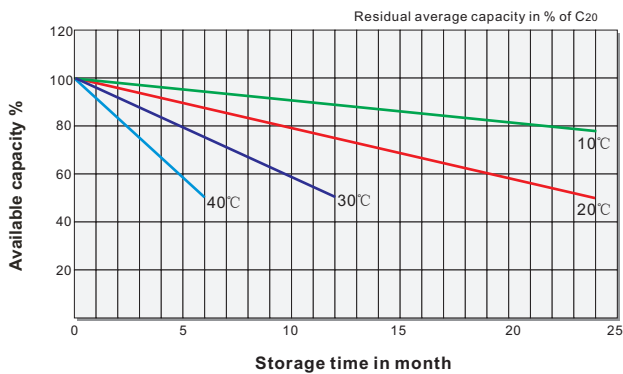
Temperature Effects in Relation to battery Capacity



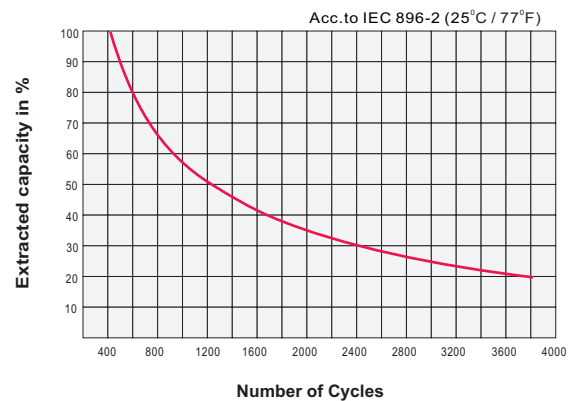
Effect of Temperature on Long Term Float Life



General Relation of Capacity VS Storage Time



Cycle Life in Relation to Depth of Discharge



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

2018/1/1

