MKBG12800 12V 80Ah (C10)



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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, folklift, etc.The deep discharge cycles increased 50% as compared with the AGM battery.



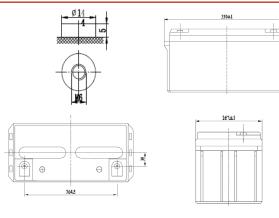
Performance Characteristics

Nominal Voltage	12V				
Design Life	12 years				
Dimensions	Length (mm / inch)	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			
Terminal	M6				
Container Material	ABS				
Rated Capacity	75.7Ah / 7.57A	(10hr, 1.70V / cell, 25ºC / 77ºF)			
	67.5Ah / 13.5A	(5hr, 1.70V / cell, 25ºC / 77ºF)			
	46.6Ah / 46.6A	(1hr, 1.70V / cell, 25ºC / 77ºF)			
Max. Discharge Current	750A (5s)				
Internal Resistance	Approx 7.0m Ω				
Operating Temp. Range	Discharge : -20 ~ 60°C (-4	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	Maximum charging current 16A				
	Voltage: 14.4V ~ 14.7V at 25	5°C (77° F)			
	Temp. Coefficient:-20mV/ºC				
Standby Use					
	13.5V ~ 13.8V at 25º C (77º	F)			
	Temp. Coefficient: -30mV/º(
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 6 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	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	143	114	72.8	45.1	19.2	13.1	7.34	3.94
1.75V	153	122	75.3	45.9	19.7	13.3	7.52	4.00
1.70V	161	127	77.9	46.6	20.1	13.5	7.57	4.05
1.65V	171	132	80.5	47.4	20.5	13.7	7.62	4.07
1.60V	180	138	83.1	48.2	20.9	13.9	7.67	4.12

Dimensions and Terminal (Unit: mm (inches))



Applications

Wind and solar energy systems Cable TV systems Telecommunications Electric wheel chairs Military equipment Emergency lighting Power plants Medical equipment Golf carts

Certifications



Discharge End Voltage vs. Discharge Current

Final discharge voltage V/CELL	1,8	1,75	1.7	1,6	
Discharge current (A)	≤ 0,1CA	0.25 CA \geq I > 0.1 CA	$0.55\text{CA} \ge I > 0.25\text{CA}$	> 0.55CA	

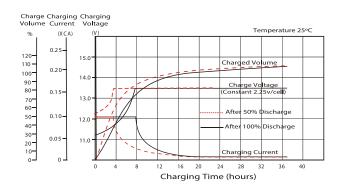
Discharge Constant Power (Watts per cell) at 77°F (25°C)

Volts/cell	10min	15min	30min	1h	3h	5h
1.80V	260	223	144	98,5	37,6	26,5
1.75V	276	237	147	99,5	38,4	26,8
1.70V	291	247	151	100	38,9	27,0
1.65V	306	255	156	101	39,5	27,3
1.60V	322	264	160	102	40,0	27,5

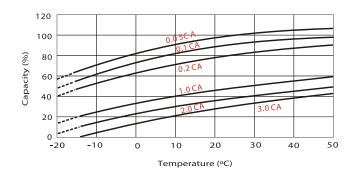
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.



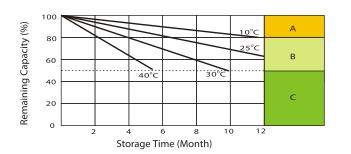
Charging Characteristics (cycle use)



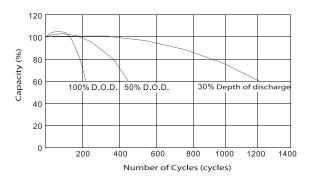
Temperature Effects in Relation to Battery Capacity



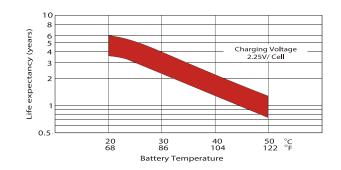
Self Discharge Characteristics

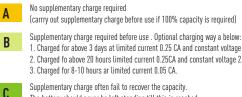


Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life





(carrry out supplementary charge before use if 100% capacity is required)

1. Charged for above 3 days at limited current 0.25 CA and constant voltage 2.25V / cell. 2. Charged fo above 20 hours limited current 0.25CA and constant voltage 2.45V / cell. 3. Charged for 8-10 hours ar limited current 0.05 CA.

The battery should never be left standing till this is reached.

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

