

# KB1270F1 12V 7Ah(20hr) - Security

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



### **Battery Construction**

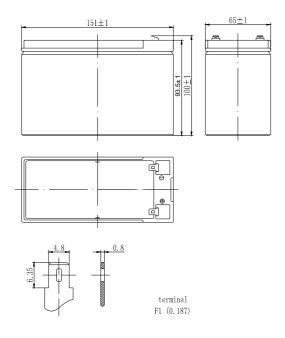
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

#### **General Features**

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- · Low self discharge.

### **Dimensions and Weight**

Length(mm / inch)
Width(mm / inch)
Height(mm / inch)
Total Height(mm / inch) 100 / 3.94
Approx. Weight(Kg / lbs) 1.90 / 4.18



# Performance Characteristics

Nominal Voltage	· .12V
Number of cell	
Design Life	
0	
Nominal Capacity 77°F(25°C)	
20 hour rate (0.35A, 10.5V)	
10 hour rate (0.68A, 10.5V)	
5 hour rate (1.13A, 10.5V) 1 hour rate (4.56A, 9.6V)	
Internal Resistance	4.50An
	00mm Ohmene
Fully Charged battery 77°F(25°C)	28mOnms
Self-Discharge	
3% of capacity declined per month at 20°C(av	erage)
Operating Temperature Range	
Discharge	
Charge	
Storage	
Max. Discharge Current 77ºF(25ºC)	· ·105A(5s)
	350A
Charge Methods: Constant Voltage Charge 77°F	- (25°C)
Cycle use	
Maximum charging current	
Temperature compensation	
Standby use	13.6-13.8V
Temperature compensation	20mV/ºC

### Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	29.1	18.4	14.8	8.30	4.56	1.84	1.26	0.70	0.363
1.65V	27.5	17.5	14.2	7.90	4.40	1.80	1.22	0.69	0.359
1.70V	26.0	16.7	13.6	7.62	4.22	1.74	1.17	0.69	0.355
1.75V	24.4	15.7	13.0	7.24	4.04	1.68	1.13	0.68	0.350
1.80V	22.8	14.8	12.4	7.03	3.84	1.63	1.08	0.66	0.344

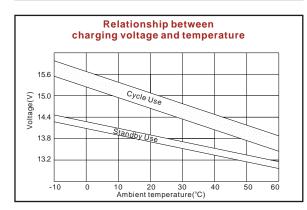
# Discharge Constant Power (Watts at 77°F25°C)

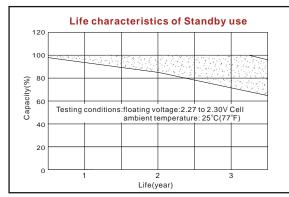
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	52.0	35.1	27.5	15.2	11.50	8.97	5.06	3.59	2.33
1.65V	49.4	33.3	26.5	14.6	11.00	8.59	4.94	3.50	2.29
1.70V	46.9	31.6	25.4	14.0	10.50	8.23	4.80	3.40	2.25
1.75V	44.5	29.8	24.3	13.4	10.10	7.99	4.65	3.30	2.21
1.80V	41.6	28.0	23.3	12.9	9.75	7.62	4.50	3.19	2.15

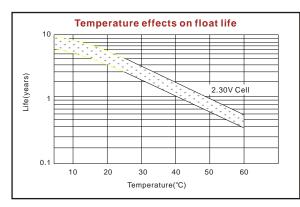
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.



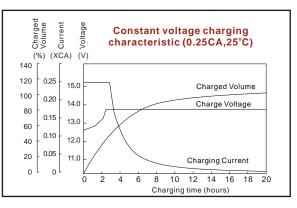
#### Discharge characteristic (25°C) 13.0 12.0 Voltage (v) 0.01 0.01 .13A0.68A0.35 74 A 21A 14A 4.56A 7A 9.0 8.0 0 \_ 10 20 30 60 2 10 20 30 3 1 3 min h Discharge time

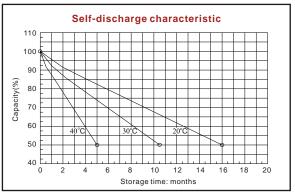


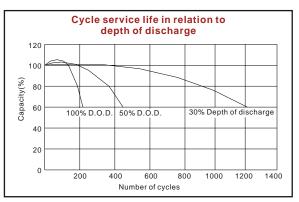


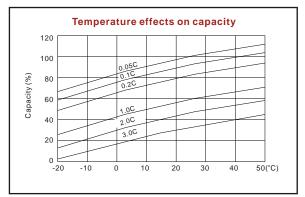


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Page 2 of 2

MH25860

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