



## KBL121340 - 12V 134Ah LONG LIFE

(Edition Dec 2010)

### General Features

- Positive and negative plates in lead-calcium-tin alloy
- Stable Quality & High Reliability
- Sealed Construction
- Long Service Life
- Maintenance-Free Operation
- Low Pressure Venting System
- Low Self Discharge
- U. L. Component Recognition
- Six months shelf life at 20°C
- Design life 10 years

## FM Series

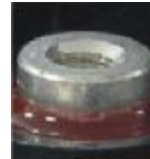
### General purpose application

KAISE FM series are designed for general purpose applications, such as UPS, telecom, electrical utilities.

With 10 years design life, the batteries comply to the most popular international standards, such as IEC896-2, BS6290-4, Eurobat Guide.

The battery container and cover are available both in V0 class flame retardant ABS or HBO ABS plastics.

KAISE has come to obtain wide recognition from customers all over the world. This is not only due to the fact that our products are featured by reliable stability in quality, but also because we attach great importance to our communication with customers and our perfect understanding of customers' requirements as well.



### Dimensions and Weight

	SI Units	English Units
Length	341mm	13.4inch
Width	173mm	6.81inch
Height	283mm	11.1inch
Total Height	287mm	11.3inch
Approx. Weight	40.0Kg	88.2lbs

### Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (13.4A, 10.8V) 134Ah
  - 5 hour rate (23.6A, 10.5V) 118Ah
  - 1 hour rate (86.5A, 9.60V) 86.5Ah
- Internal Resistance
  - Fully Charged battery 77°F(25°C) 3.8mOhms
- Self-Discharge
  - 3% of capacity declined per month at 20°C(average)
- Operating Temperature Range
  - Discharge -20~60°C
  - Charge -10~60°C
  - Storage -20~60°C
- Max. Discharge Current 77°F(25°C) 950A(5s)
- Short Circuit Current 2500A
- Charge Methods: Constant Voltage Charge 77°F(25°C)
  - Cycle use 2.30-2.35VPC
  - Maximum charging current 40.2A
  - Temperature compensation -30mV/°C
- Standby use 2.23-2.27VPC
  - Temperature compensation -20mV/°C



### Discharge Data

Constant Current Discharge Data ( Amperes at 25°C )																								
End Voltage Per cell / V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60	314	248	197	167	147	130	117	107	98.8	92.1	86.5	62.4	50.3	43.0	38.2	30.3	25.6	21.6	18.7	16.6	14.9	13.6	11.7	6.24
1.65	292	237	191	163	145	128	115	105	96.7	89.9	84.3	60.9	49.1	42.1	37.4	29.7	25.0	21.2	18.5	16.4	14.8	13.6	11.6	6.23
1.70	280	231	187	160	142	125	112	102	94.0	87.5	82.1	59.5	48.1	41.3	36.8	29.0	24.3	20.7	18.1	16.2	14.7	13.5	11.5	6.18
1.75	257	214	177	154	139	122	110	99.8	92.0	85.5	80.2	58.2	47.1	40.5	36.1	28.3	23.6	20.2	17.8	16.0	14.6	13.5	11.4	6.17
1.80	235	197	166	147	134	118	106	96.7	89.2	83.1	78.0	56.6	45.9	39.5	35.2	27.6	23.0	19.8	17.5	15.8	14.5	13.4	11.3	6.14

Constant Power Discharge Data ( Watts per cell at 25°C )																								
End Voltage Per cell / V	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60	566	474	381	324	287	252	226	206	189	175	163	117	94.6	80.9	71.8	56.6	47.4	40.6	35.7	32.0	29.2	26.9	22.9	12.3
1.65	529	433	347	295	261	235	215	200	183	169	158	114	92.2	79.1	70.3	55.7	47.0	40.1	35.2	31.5	28.6	26.3	22.4	12.1
1.70	512	427	343	292	258	231	211	195	179	165	154	112	90.6	78.0	69.5	54.8	45.9	39.2	34.4	30.8	27.9	25.7	21.8	11.7
1.75	483	414	334	286	254	227	208	192	176	163	152	110	89.5	76.9	68.6	53.7	44.8	38.3	33.6	30.1	27.4	25.2	21.4	11.5
1.80	448	391	319	276	247	222	204	189	173	161	150	109	88.7	76.4	68.2	53.1	44.0	37.5	32.9	29.4	26.7	24.5	20.8	11.2

### Performance drawings

