



VISION Rechargeable Products  
Sealed Lead Acid Battery

[www.vision-batt.com](http://www.vision-batt.com)

## FM Series

### General purpose application

VISION 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.

Shenzhen Center Power Tech Co., Ltd. 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.

Shenzhen Center Power Tech. Co., Ltd

# 6FM175 12V 175Ah

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## 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



## Dimensions and Weight

	SI Units	English Units
Length	530mm	20.9inch
Width	209mm	8.23inch
Height	215mm	8.46inch
Total Height	240mm	9.45inch
Approx. Weight	55.5Kg	122.4lbs

## Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (17.5A, 10.8V) 175Ah
  - 5 hour rate (31.5A, 10.5V) 157.5Ah
  - 1 hour rate (115A, 9.60V) 115Ah
- Internal Resistance
  - Fully Charged battery 77°F(25°C) 3.6mOhms
- 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) 1000A(5s)
- Short Circuit Current 3430A
- Charge Methods: Constant Voltage Charge 77°F(25°C)
  - Cycle use 14.4-14.7V
  - Maximum charging current 52.5A
  - Temperature compensation -30mV/°C
- Standby use 13.6-13.8V
  - Temperature compensation -20mV/°C



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**Discharge Data**

Constant Current Discharge Data ( Amperes at 25°C)																								
End voltage volts/cell		15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V		324	259	221	195	172	155	141	131	122	115	83.1	67.1	57.5	51.1	40.1	33.5	28.4	24.6	21.9	19.7	18.0	15.4	8.22
1.65V		309	248	212	187	166	150	137	127	119	112	80.7	65.3	56.1	49.9	39.2	32.7	27.8	24.2	21.6	19.5	17.9	15.2	8.17
1.70V		298	241	206	183	162	146	134	123	115	108	78.8	64.1	55.3	49.4	38.6	32.1	27.3	23.9	21.3	19.3	17.7	15.1	8.11
1.75V		280	229	199	178	158	142	130	120	112	105	76.8	62.6	54.1	48.4	37.9	31.5	26.9	23.6	21.1	19.2	17.6	15.0	8.06
1.80V		246	207	184	169	150	136	125	116	108	102	74.3	60.3	51.8	46.2	36.7	31.0	26.5	23.3	20.9	19.0	17.5	14.9	8.02

Constant Power Discharge Data ( Watts per cell at 25°C)																								
End voltage volts/cell		15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V		584	476	411	368	326	294	269	246	227	211	154	125	108	96.8	76.4	64.2	54.6	47.8	42.6	38.6	35.4	29.9	16.1
1.65V		554	451	389	347	310	282	261	239	221	206	151	123	107	95.5	75.2	63.1	53.5	46.7	41.5	37.5	34.3	29.2	15.7
1.70V		528	435	379	341	304	276	254	233	216	201	148	121	105	94.2	74.2	62.2	52.7	45.9	40.8	36.8	33.7	28.6	15.4
1.75V		511	422	369	333	297	271	249	228	212	197	145	118	102	91.6	72.6	61.2	51.8	45.1	40.1	36.2	33.1	28.1	15.1
1.80V		490	408	359	327	292	266	246	226	209	195	143	116	100	89.4	71.2	60.2	50.9	44.3	39.3	35.4	32.3	27.5	14.8

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

**Performance drawings**

