



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

# 6FM65-X 12V 65Ah

(Edition June 2004)

## 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	350mm	13.8inch
Width	167mm	6.57inch
Height	179mm	7.05inch
Total Height	179mm	7.05inch
Approx. Weight	23.4Kg	51.6lbs

## Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (6.50A, 10.8V) 65.0Ah
  - 5 hour rate (11.3A, 10.5V) 56.5Ah
  - 1 hour rate (44.2A, 9.60V) 44.2Ah
- Internal Resistance
  - Fully Charged battery 77°F(25°C) 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) 650A(5s)
- Short Circuit Current 1700A
- Charge Methods: Constant Voltage Charge 77°F(25°C)
  - Cycle use 14.4-14.7V
  - Maximum charging current 19.5A
  - Temperature compensation -30mV/°C
- Standby use 13.6-13.8V
  - Temperature compensation -20mV/°C



Center Power Industrial Park, Tongfu Industrial District Dapeng Town, 518120 Shenzhen, China  
Tel: 86 755 84318088 Fax: 86 755 84318038 E-mail: [sales@vision-batt.com](mailto:sales@vision-batt.com)  
Website: <http://www.vision-batt.com>

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## Discharge Data

Constant Current Discharge Data ( Amperes at 25°C )																									
End Voltage Per cell / V	5min	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	215	160	125	97.8	81.4	70.5	63.0	57.4	53.0	49.5	46.6	44.2	30.9	24.3	20.3	17.7	14.2	12.1	10.4	9.19	8.28	7.58	7.01	5.90	3.20
1.65	203	151	116	92.2	77.7	68.0	61.5	56.6	52.8	48.5	44.9	41.9	29.5	23.3	19.6	17.1	13.7	11.7	10.1	8.96	8.10	7.43	6.90	5.81	3.12
1.70	191	143	114	90.2	75.8	66.3	59.4	54.2	50.1	46.7	43.8	41.5	29.2	23.1	19.4	16.9	13.5	11.5	9.92	8.79	7.95	7.29	6.76	5.75	3.06
1.75	178	132	108	87.1	74.6	66.2	59.2	53.9	49.8	46.2	43.3	40.9	28.8	22.8	19.2	16.7	13.3	11.3	9.74	8.62	7.78	7.13	6.61	5.62	2.97
1.80	165	120	100	80.9	69.4	61.8	55.6	50.9	47.3	43.7	40.7	38.3	27.3	21.8	18.5	16.3	13.0	11.1	9.57	8.47	7.65	7.01	6.50	5.53	2.86

Constant Power Discharge Data ( Watts per cell at 25°C )																									
End Voltage Per cell / V	5min	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	381	282	222	177	150	132	117	106	98.0	91.1	85.5	80.8	57.7	46.1	39.1	34.5	27.2	22.8	19.6	17.3	15.5	14.2	13.1	11.1	5.98
1.65	359	267	206	166	143	127	114	104	96.5	89.5	83.8	79.0	56.4	45.1	38.3	33.8	26.8	22.6	19.4	17.1	15.3	14.0	12.9	11.0	5.90
1.70	337	252	197	158	134	118	108	100	94.5	87.6	81.9	77.2	55.5	44.6	38.1	33.7	26.6	22.4	19.2	16.9	15.2	13.9	12.8	10.9	5.88
1.75	315	237	193	155	131	116	106	98.3	92.4	85.6	80.0	75.4	53.9	43.2	36.7	32.4	25.9	22.0	18.9	16.7	15.0	13.7	12.7	10.8	5.84
1.80	294	220	183	149	128	114	104	96.9	91.2	84.7	79.4	75.0	53.4	42.5	36.0	31.7	25.5	21.7	18.7	16.5	14.9	13.6	12.6	10.7	5.78

## Performance drawings

