VISION

VISION Rechargeable Products
Sealed Lead Acid Battery

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

6FM24-X 12V 24Ah

(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	166mm	6.54inch
Width	175mm	6.89inch
Height	125mm	4.92inch
Total Height	125mm	4.92inch
Approx. Weight	8.6Kg	19.0lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (2.40A, 10.8V) 24.0Ah
  - 5 hour rate (4.17A, 10.5V) 20.9Ah
  - 1 hour rate (16.0A, 9.60V) 16.0Ah
- Internal Resistance
  - Fully Charged battery 68°F(20°C) 12mOhms
- 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 68°F(20°C) 240A(5s)
- Short Circuit Current 850A
- Charge Methods: Constant Voltage Charge 68°F(20°C)
  - Cycle use 14.4-14.7V
  - Maximum charging current 7.2A
  - Temperature compensation -30mV/°C
- Standby use 13.6-13.8V
  - Temperature compensation -20mV/°C

ISO9001:2000 · 1298-2004-AE-RGC-RvA · MH25860 · G4M19906-9202-E-16

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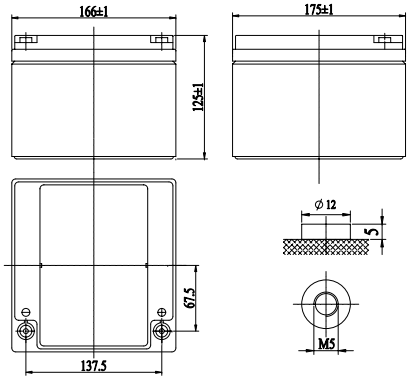
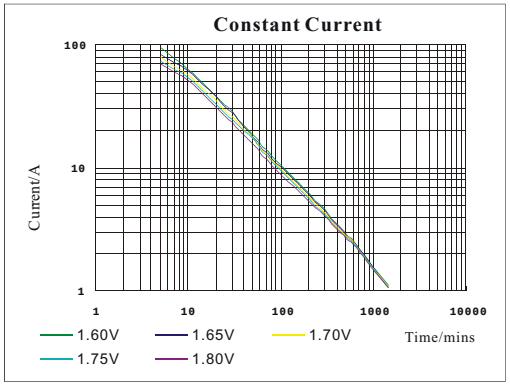
Discharge Data

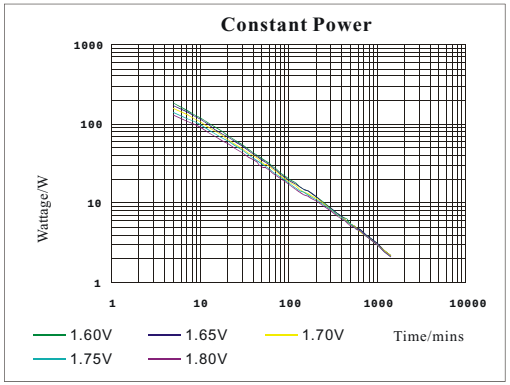
Constant Current Discharge Data (Amperes at 25°C)																								
End Voltage Per cell / V	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60	95.0	64.0	48.0	38.3	32.4	28.5	24.9	22.3	20.2	18.5	17.1	16.0	11.4	9.06	7.67	6.74	5.37	4.55	3.89	3.41	3.06	2.78	2.56	2.14	1.10
1.65	83.8	60.9	47.2	37.7	31.9	28.1	24.4	21.6	19.4	17.8	16.5	15.4	11.0	8.83	7.51	6.64	5.26	4.44	3.80	3.34	3.00	2.73	2.52	2.12	1.09
1.70	80.5	57.8	43.7	35.0	29.7	26.2	23.2	20.9	19.1	17.4	16.0	14.8	10.6	8.43	7.15	6.30	5.06	4.31	3.70	3.26	2.94	2.68	2.48	2.11	1.08
1.75	74.6	54.5	41.1	33.0	28.1	24.9	22.3	20.3	18.7	17.1	15.7	14.5	10.3	8.17	6.90	6.05	4.88	4.17	3.59	3.18	2.87	2.63	2.44	2.07	1.06
1.80	69.8	51.3	39.1	31.4	26.7	23.6	20.7	18.6	16.9	15.5	14.4	13.5	9.64	7.71	6.55	5.78	4.68	4.02	3.48	3.09	2.81	2.58	2.40	2.04	1.05

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	185	121	90.0	72.5	62.0	55.0	48.6	43.8	40.0	36.7	34.0	31.7	22.6	18.0	15.2	13.4	10.5	8.73	7.43	6.50	5.80	5.25	4.82	4.10	2.21
1.65	173	114	85.1	68.7	58.9	52.3	46.3	41.7	38.2	35.0	32.5	30.3	21.7	17.4	14.8	13.1	10.3	8.58	7.31	6.40	5.72	5.18	4.76	4.05	2.18
1.70	161	107	80.2	64.9	55.7	49.6	43.9	39.6	36.3	33.3	30.9	28.9	20.7	16.6	14.1	12.5	9.94	8.40	7.17	6.29	5.63	5.12	4.71	4.01	2.16
1.75	141	99.7	75.2	60.9	52.3	46.6	41.3	37.4	34.3	31.6	29.4	27.5	19.8	15.9	13.6	12.0	9.63	8.21	7.03	6.18	5.55	5.05	4.66	3.96	2.13
1.80	130	92.7	70.3	57.0	49.0	43.7	38.8	35.2	32.3	29.8	27.7	26.0	18.7	15.1	12.9	11.4	9.28	8.00	6.87	6.06	5.46	4.99	4.61	3.92	2.11

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







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