



VISION Rechargeable Products Sealed Lead Acid Battery

www.vision-batt.com

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.

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

6FM55SG-X 12V 55Ah

(Edition 2014-1)

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	229mm	9.02inch
Width	138mm	5.43inch
Height	208mm	8.19inch
Total Height	213mm	8.39inch
Approx. Weight	18.0Kg	39.7lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
 - 10 hour rate (5.50A, 10.8V) 55.0Ah
 - 5 hour rate (9.23A, 10.5V) 46.2Ah
 - 1 hour rate (35.1A, 9.60V) 35.1Ah
- Internal Resistance
 - Fully Charged battery 77°F(25°C) ≤ 7.2 mOhms
- 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) 550A(5s)
- Short Circuit Current 1400A
- Charge Methods: Constant Voltage Charge 77°F(25°C)
 - Cycle use 2.40-2.45VPC
 - Maximum charging current 16.5A
 - Temperature compensation -30mV/°C
- Standby use 2.20-2.30VPC
 - Temperature compensation -20mV/°C

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

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	175	129	99.4	79.3	67.2	59.2	52.3	47.1	43.1	39.9	37.3	35.1	24.9	19.7	16.7	14.6	11.6	9.82	8.43	7.44	6.69	6.11	5.65	4.78	2.45
1.65	165	124	95.4	76.4	65.0	57.4	50.8	45.8	41.9	38.8	36.3	34.2	24.2	19.2	16.2	14.2	11.3	9.57	8.25	7.31	6.61	6.06	5.62	4.75	2.43
1.70	155	115	90.6	73.1	62.6	55.6	49.2	44.4	40.7	37.7	35.3	33.3	23.6	18.8	15.8	13.9	11.1	9.40	8.13	7.22	6.54	6.00	5.58	4.72	2.41
1.75	145	106	85.8	69.8	60.2	53.8	47.7	43.2	39.6	36.8	34.4	32.5	23.1	18.3	15.5	13.6	10.9	9.23	8.00	7.12	6.46	5.95	5.54	4.69	2.40
1.80	134	99.8	79.5	65.7	57.4	51.9	46.1	41.8	38.4	35.7	33.5	31.7	22.5	17.9	15.1	13.3	10.7	9.06	7.87	7.03	6.39	5.90	5.50	4.65	2.38

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	318	229	182	146	125	111	100	91.7	85.3	78.7	73.4	68.9	49.0	39.1	33.1	29.1	22.7	18.8	16.2	14.3	12.9	11.8	10.9	9.25	5.06
1.65	300	225	177	143	123	109	98.3	90.3	84.0	77.3	71.9	67.3	47.9	38.2	32.4	28.5	22.3	18.6	16.0	14.1	12.8	11.7	10.8	9.19	4.95
1.70	281	213	169	138	119	107	96.4	88.5	82.3	75.7	70.3	65.8	46.9	37.4	31.7	27.9	21.8	18.2	15.7	13.9	12.5	11.4	10.6	9.02	4.85
1.75	261	200	162	134	116	105	94.5	86.6	80.5	74.0	68.7	64.3	45.8	36.6	31.0	27.3	21.5	18.0	15.5	13.7	12.3	11.2	10.4	8.84	4.76
1.80	248	186	154	129	114	104	93.0	84.8	78.4	72.6	67.9	64.0	45.4	36.0	30.4	26.7	21.2	17.9	15.3	13.5	12.1	11.1	10.2	8.65	4.66

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values. All data shall be changed without notice, Vision reserves the right to explain and update the information contained herein.



