



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

6FM80-X 12V 72Ah

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	24.0Kg	52.9lbs

Performance Characteristics

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
 - 10 hour rate (8.00A, 10.8V) 72Ah
 - 5 hour rate (14.4A, 10.5V) 65Ah
 - 1 hour rate (53.7A, 9.60V) 48.3Ah
- Internal Resistance
 - Fully Charged battery 77°F(25°C) 5.5mOhms
- 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) 750A(5s)
- Short Circuit Current 1900A
- Charge Methods: Constant Voltage Charge 77°F(25°C)
 - Cycle use 14.4-14.7V
 - Maximum charging current 24A
 - Temperature compensation -30mV/°C
- Standby use 13.6-13.8V
 - 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 volts/cell	5min	10min	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	222	169	134	106	89.6	78.6	70.5	64.4	59.6	55.1	51.4	48.3	34.4	27.5	23.2	20.4	16.1	13.5	11.5	9.99	8.92	8.06	7.38	6.21	3.35
1.65V	210	160	123	99.0	84.4	74.7	66.7	60.7	56.0	52.2	49.1	46.4	33.4	26.8	23.0	20.3	15.9	13.2	11.3	9.90	8.81	7.99	7.34	6.17	3.33
1.70V	196	151	119	95.4	81.5	72.3	64.8	59.2	54.9	50.9	47.5	44.8	32.5	26.3	22.6	20.2	15.8	13.2	11.3	9.81	8.78	7.95	7.29	6.14	3.29
1.75V	184	143	113	91.8	78.6	69.8	62.0	56.2	51.6	47.9	44.9	42.4	31.0	25.3	21.9	19.6	15.5	13.0	11.1	9.72	8.67	7.86	7.25	6.10	3.27
1.80V	171	134	106	86.9	75.2	67.5	60.1	54.6	50.3	46.9	44.0	41.7	30.2	24.4	20.9	18.6	14.9	12.7	10.9	9.54	8.57	7.81	7.2	6.06	3.25

Constant Power Discharge Data (Watts per cell at 25°C)																									
End voltage volts/cell	5min	10min	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	390	291	232	191	166	149	132	121	112	103	94.5	88.7	63.5	50.9	43.3	38.3	30.1	25.1	21.6	19.1	17.2	15.7	14.5	12.3	6.57
1.65V	378	279	225	184	158	141	128	118	110	101	93.6	88.0	62.6	49.8	42.1	37.0	29.3	24.7	21.2	18.6	16.7	15.3	14.1	12.0	6.48
1.70V	351	269	221	179	153	136	122	113	105	97.2	90.0	84.4	60.4	48.3	41.1	36.4	28.8	24.3	20.8	18.4	16.5	15.0	13.9	11.8	6.39
1.75V	331	258	209	172	149	134	121	111	103	94.5	88.4	83.1	59.5	47.7	40.6	35.9	28.5	24.1	20.6	18.1	16.2	14.8	13.6	11.5	6.30
1.80V	314	248	196	164	144	131	118	108	100	91.8	85.1	79.7	57.4	46.3	39.6	35.1	28.0	23.8	20.3	17.8	15.9	14.5	13.3	11.2	6.21

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



