

**fgFORTE Rechargeable Products  
Sealed Lead Acid Battery**

[www.fg-forte.com](http://www.fg-forte.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**

fgFORTE 6FGseries 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.

fgFORTE s.r.o. 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.



**fgFORTE s.r.o.**

**6FG17 12V 17Ah**

**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

**Product**

**6FG17**

**Dimensions and Weight**

	<i>SI Units</i>	<i>English Units</i>
Length	181mm	7.13inch
Width	77mm	3.03inch
Height	167mm	6.57inch
Total Height	167mm	6.57inch
Approx. Weight	5.7Kg	12.6lbs

**Performance Characteristics**

- Nominal Voltage 12V
- Number of cell 6
- Nominal Capacity 77°F(25°C)
  - 10 hour rate (1.70A, 10.8V) 17.0Ah
  - 5 hour rate (3.01A, 10.5V) 15.1Ah
  - 1 hour rate (12.0A, 9.60V) 12.0Ah
- Internal Resistance
  - Fully Charged battery 68°F(20°C) 16mOhms
- 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) 170A(5s)
- Short Circuit Current 850A
- Charge Methods: Constant Voltage Charge 68°F(20°C)
  - Cycle use 14.4-14.7V
  - Maximum charging current 5.1A
  - 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 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	67.0	45.3	35.6	27.8	23.1	20.0	17.7	16.0	14.7	13.6	12.7	12.0	8.41	6.61	5.54	4.82	3.80	3.18	2.73	2.41	2.17	1.98	1.83	1.56	0.82
1.65	64.9	44.2	34.0	26.8	22.5	19.6	17.4	15.7	14.4	13.4	12.5	11.8	8.20	6.40	5.32	4.60	3.68	3.13	2.67	2.34	2.10	1.90	1.75	1.49	0.78
1.70	63.0	43.1	33.5	26.3	21.9	19.0	16.9	15.3	14.0	13.0	12.3	11.6	8.02	6.22	5.15	4.43	3.58	3.07	2.61	2.28	2.03	1.83	1.73	1.47	0.77
1.75	60.1	41.9	32.0	25.4	21.4	18.7	16.6	15.0	13.8	12.6	11.6	10.8	7.59	5.97	5.01	4.36	3.52	3.01	2.56	2.23	1.99	1.80	1.72	1.46	0.77
1.80	57.4	40.8	31.0	24.5	20.6	18.0	16.1	14.6	13.5	12.3	11.3	10.5	7.39	5.84	4.90	4.28	3.44	2.93	2.49	2.18	1.95	1.77	1.70	1.45	0.76

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	133	83.6	65.0	51.7	43.6	38.3	34.5	31.6	29.4	27.0	25.0	23.4	16.3	12.7	10.5	9.10	7.33	6.27	5.28	4.57	4.04	3.62	3.29	2.81	1.55
1.65	127	82.2	64.6	51.2	43.2	37.8	34.1	31.3	29.1	26.7	24.8	23.2	16.1	12.6	10.4	9.01	7.25	6.20	5.23	4.53	4.01	3.60	3.28	2.80	1.52
1.70	118	80.8	63.0	50.1	42.4	37.2	33.6	30.8	28.7	26.4	24.6	23.0	16.0	12.4	10.3	8.90	7.16	6.12	5.16	4.48	3.97	3.57	3.25	2.78	1.51
1.75	115	79.3	62.0	49.4	41.8	36.7	33.1	30.5	28.4	26.1	24.3	22.7	15.8	12.3	10.2	8.83	7.09	6.05	5.11	4.43	3.93	3.53	3.22	2.76	1.50
1.80	111	77.9	60.4	48.2	41.0	36.1	32.6	30.0	28.0	25.8	24.0	22.5	15.6	12.2	10.1	8.74	7.05	6.03	5.09	4.41	3.91	3.51	3.20	2.70	1.49

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

