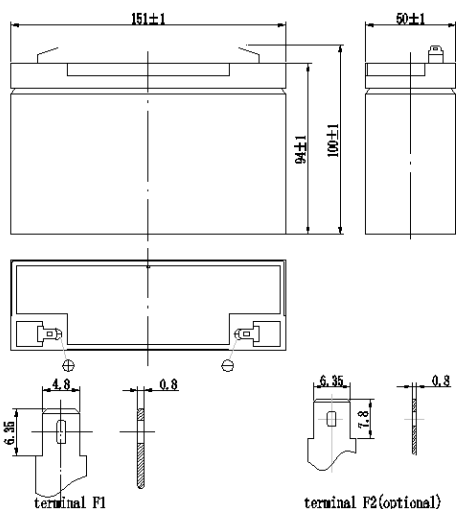


VALVE REGULATED LEAD-ACID RECHARGEABLE BATTERY

FL6120

(6V12Ah/20hr)



FL Series

Valve Regulated Lead Acid batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to gain extra power output for common power backup system applications widely used in the field of UPS, Emergency Lighting System.

Application

- Alarm System
- Medical Equipment
- Cable Television
- UPS
- Power tools
- Communication Equipment
- Emergency Power System
- Control Equipment
- Security System
- Toys

General Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers (UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof .
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

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

TECHNOLOGY PARAMETER

Battery model	FL6120			
Designed Floating Life	5 Years			
Capacity (25°C)	20hR(0.6 A, 5.25V)	10hR(1.14A,5.25V)	5hR(2.06A, 5.25V)	1hR(8.09A, 4.80V)
	12Ah	11.4Ah	10.3Ah	8.09Ah
Dimensions	Length	Width	Height	Total Height
	151±1mm	50±1mm	94±1mm	100±1mm
Approx. weight (±3%)	1.72Kg (3.79 lbs)			
Internal resistance	Full charged at 25°C: Approx . 10mOhms			
Self discharge	3% of capacity declined per month at 25°C (average)			
Capacity Affected by Temp.(20HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	7.25-7.45V(-15mV/°C), max. Current: 3.6A		6.8-6.9V(-10mV/°C)	

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FL6120 (6V12Ah/20hr)

Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	46.3	32.6	24.9	13.8	8.09	3.40	2.15	1.22	0.621
1.65V	44.5	31.4	24.2	13.3	7.70	3.29	2.12	1.19	0.616
1.70V	41.9	30.2	23.6	12.8	7.33	3.18	2.09	1.16	0.608
1.75V	39.3	29.0	22.7	12.3	6.96	3.05	2.06	1.14	0.600
1.80V	36.8	27.8	22.0	11.8	6.81	2.91	2.02	1.11	0.589

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	85.7	60.4	46.4	25.8	15.2	6.43	4.08	2.32	1.19
1.65V	81.8	57.8	44.8	24.7	14.4	6.19	4.00	2.26	1.18
1.70V	76.7	55.3	43.5	23.6	13.6	5.95	3.92	2.20	1.16
1.75V	71.6	52.8	41.6	22.6	12.9	5.67	3.85	2.14	1.13
1.80V	66.2	50.0	39.8	21.4	12.5	5.35	3.74	2.07	1.10

