

6-FM-55Ah



Valve-regulated Lead Acid Battery Specification

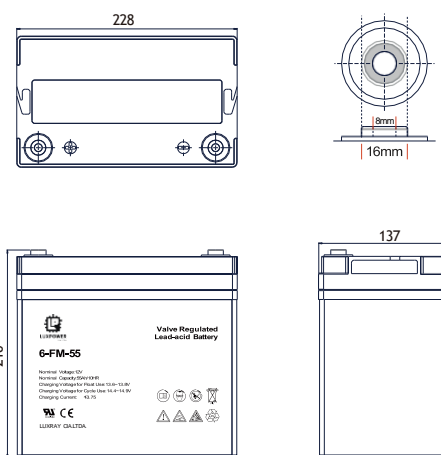
Features

- Maintenance free
- Safety and no leakage
- Excellent recharge and discharge performance
- Low self-discharge rate
- Adapt to high or low temperature
- Good deep discharge performance
- Longer cycle life



Specification

Rated Voltage	12V
Numbers of cells	6 Cells
Capacity	55Ah@10hr-rate to 1.80V per cell @25°C
Weight	15.7kg
Internal Resistance	Approx. 5 mΩ
Terminal	F6
Max. Discharge Current	660A(5s)
Short Circuit Current	2750A
Max. Charging Current	13.75A
Reference Capacity	C10 55.0AH C3 43.7AH C1 35.5AH
Design Life	10-15 years
Float Charging Voltage	13.5 V-13.8 V @ 25°C Temperature Compensation: -20mV/°C/Cell
Cycle Use Voltage	14.4 V-15 V @ 25°C Temperature Compensation: -30mV/°C/Cell
Operating Temperature Range	Discharge: -20°C-60°C Charge: 0°C-50°C Storage: -20°C-60°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Length	228±2mm (8.98 inches)
Width	137±1mm (5.39 inches)
Height	210±1mm (8.27 inches)
Total Height	210±1mm (9.06 inches)

Constant Current Discharge Characteristics: A(25°C)

F.V/Time	10min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V/cell	102.90	70.00	42.60	39.40	30.80	18.60	14.30	9.40	6.61	5.50	2.95
1.75V/cell	113.10	75.30	50.30	40.80	32.20	19.30	14.60	9.65	6.73	5.56	2.98
1.70V/cell	123.20	79.10	52.20	42.50	33.20	20.10	15.00	9.89	6.82	5.61	3.03
1.65V/cell	133.00	84.10	54.30	43.50	34.30	20.60	15.60	10.20	6.93	5.73	3.07
1.60V/cell	144.40	89.50	60.50	45.40	35.50	21.30	16.10	10.50	6.99	5.79	3.09

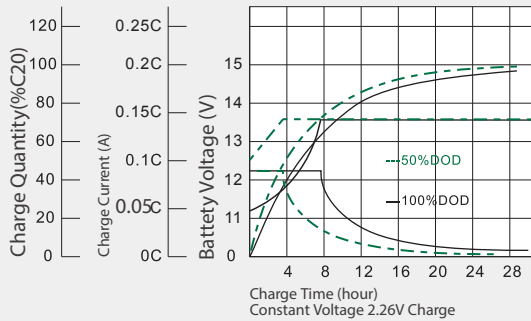
Constant-power discharge parameter Unit: W(25°C)1

F.V/Time	10min	20min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V/cell	189.40	131.40	95.40	75.50	59.40	36.10	27.80	18.40	13.10	10.90	5.89
1.75V/cell	205.60	140.10	98.60	78.00	61.90	37.30	28.30	18.90	13.30	11.00	5.94
1.70V/cell	220.90	146.40	102.20	80.90	63.70	38.70	29.00	19.30	13.50	11.10	6.04
1.65V/cell	236.70	154.80	107.30	82.60	65.60	39.60	30.10	19.80	13.60	11.30	6.11
1.60V/cell	252.60	163.20	112.20	85.30	67.40	40.70	30.90	20.30	13.80	11.40	6.14

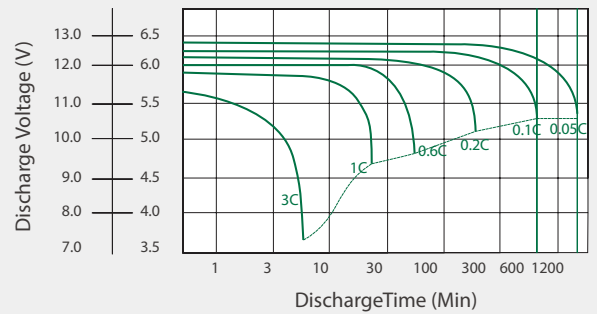
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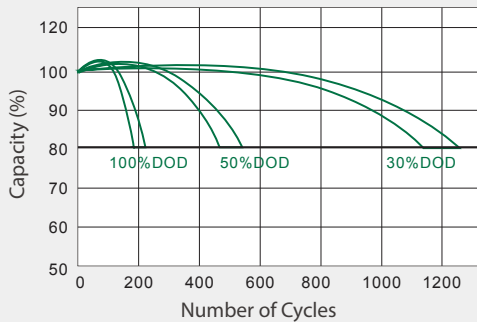
Charge Characteristics for Float Use @ 25°C/77°F



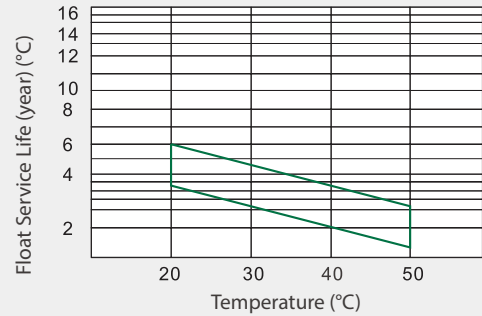
Discharge Characteristics at Various Rates @ 25°C/77°F



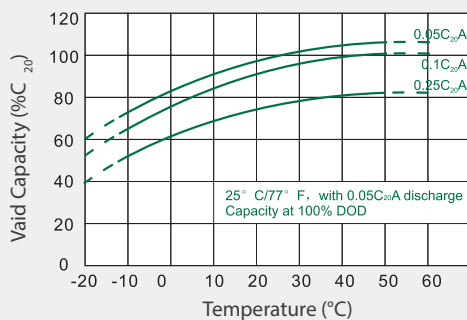
Cycle Life in Relation to Depth of Discharge



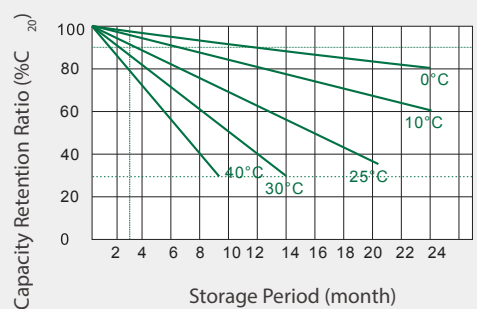
Float Service Life



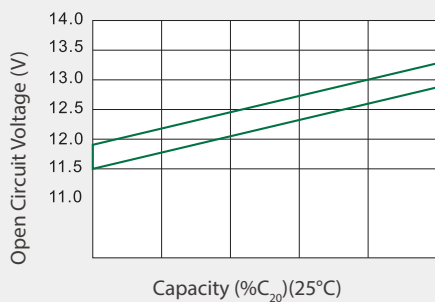
Temperature and Valid Capacity



Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature

