



Telecom/Power Backup Battery

6FM105FR (12V105Ah)

LONGWAY Telecom power backup battery series adopts front terminal design, which has the advantages of faster installation, saving floor space, long floating service design life, high energy density, leakage prevention and maintenance free. At the same time, the series of products designed standby life of 12 years. The products pass UL, CE, RoHS certification, and can be shipped by sea or air.



General Feature

- High reliability, safe without leakage. Maintenance free
- Thick plate, special formula paste process, with a long service life
- Environmentally friendly products
Meet EU battery directive RoHS and REACH standards
- The partition design protects the terminal from short circuit
- Widely applicable temperature range, can be used at -20°C~60°C
- Long Storage time. Battery with full state of charge under room temperature, after 6-12 months storage, it can be used & recovered (It is recommended to recharge after storage for 6 months or before use)

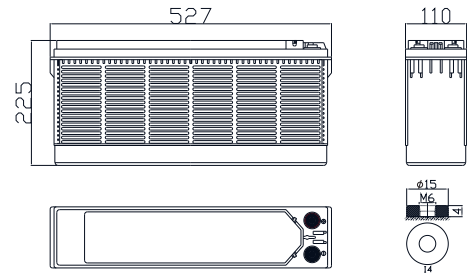
Applications

- Telecom systems
- UPS
- Power Backup
- Electric power system
- Communication base station
- Energy storage systems
- Solar systems

Performance

Nominal Voltage	12V (6cell)
Capacity	@25°C
20hr Rate (5.25A)	105Ah @ to 1.75V/cell
10hr Rate (10.5A)	105Ah @ to 1.70V/cell
3hr Rate (26.3A)	78.8Ah@ to 1.60V/cell
Weight	Approx (32.5±3%)kg (71.6lbs)
Internal Resistance	Approx 4.40mΩ fully charged @25°C
Maximum Discharge Current	500A(3sec)
Terminal	I4
Operating Temperature Range	Discharge:-20°C~60°C;Charge:0°C~50°C Storage:-20°C~40°C
Container Material	ABS(UL94 HB)/UL94-V0 Optional

Dimensions



Lenght	527mm	20.75inch
Width	110mm	4.33inch
Height	225mm	8.56inch
Total height	232mm	9.13inch

Battery use

Cycle use

- 1.Limit the initial charging current to no more than 26.2A
- 2.Keep charging voltage at 14.40-15.00V/unit, and continue charging at least 3 hours after the charging current reduces to 2.1A to ensure full charge
- 3.The compensation coefficient of charging voltage and temperature is -5mv/cell /°C

Float use

- 1.Limit the initial charging current to no more than 26.2A
2. Keep charging voltage at 13.50-13.80V/unit. When the voltage reaches the constant voltage the current gradually decreases until the battery is fully charged and continues to charge
- 3.The compensation coefficient of charging voltage and temperature is -3mv/cell /°C



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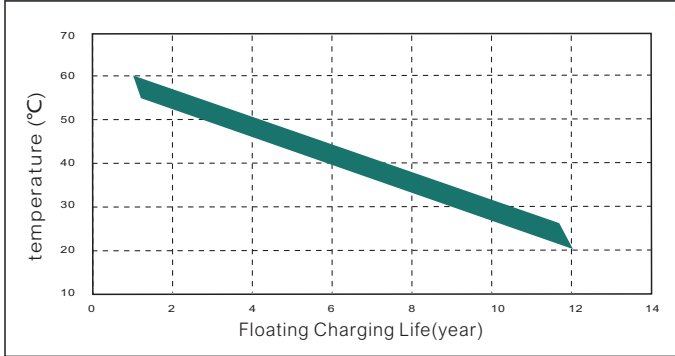
Note: This information usually describes use only and is not intended to make any warranties or promises regarding the battery, Battery specifications and battery design are subject to change without prior notice. Please contact LONGWAY Battery for the latest information.



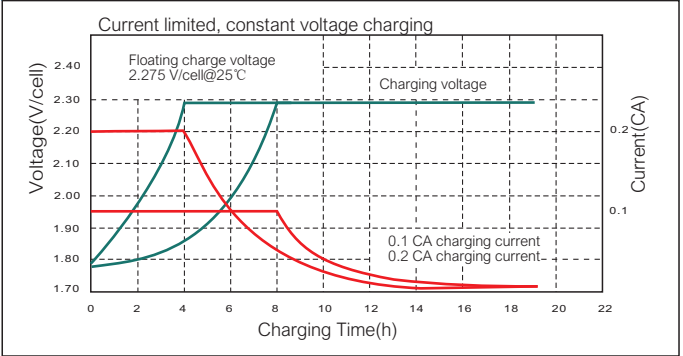
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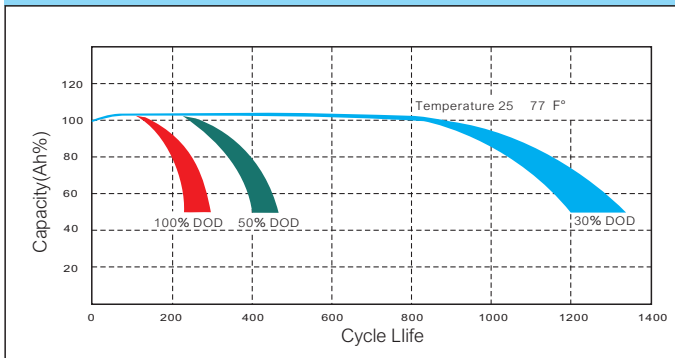
Floating Charging Life VS Temperature



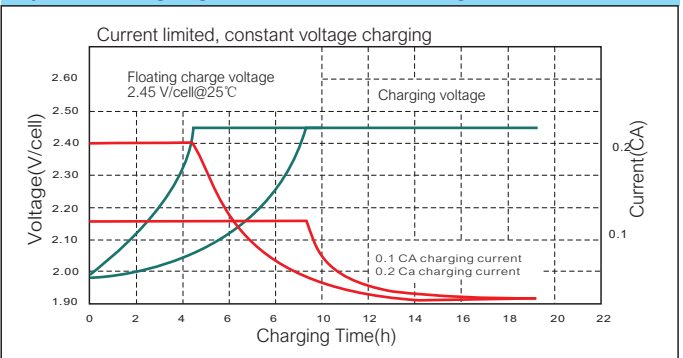
Floating Charging Characteristics Diagram



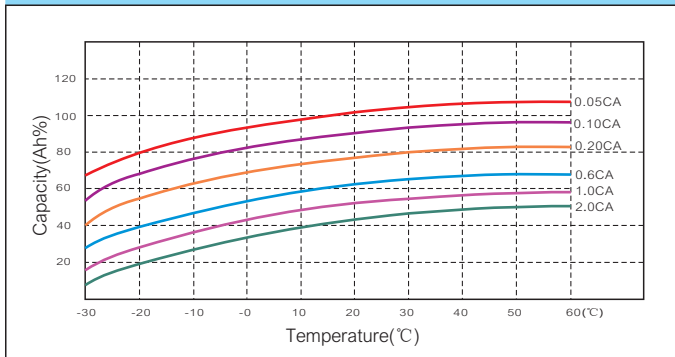
Cycle Life



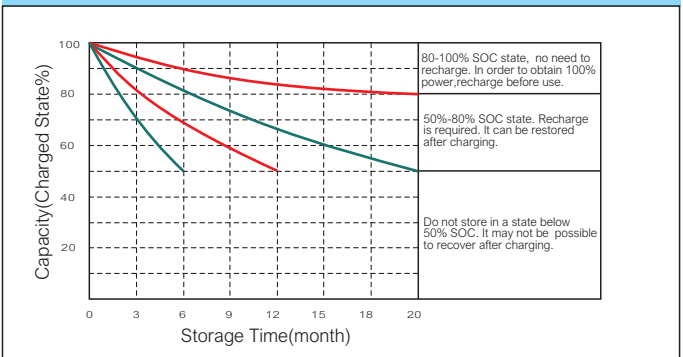
Cycle charging characteristic diagram



Temperature and capacity characteristics



Self-discharge characteristic



Constant current characteristics(A,25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	262.5	210.0	178.5	110.3	57.75	37.86	26.64	18.12	11.78	10.66	5.38
9.90	254.6	203.7	174.9	108.0	56.60	37.67	26.51	18.03	11.67	10.61	5.36
10.20	249.4	199.5	171.4	105.8	55.44	37.12	26.25	17.85	11.62	10.56	5.33
10.50	241.5	193.2	166.0	102.5	53.71	36.75	25.99	17.67	11.55	10.53	5.32
10.80	204.8	187.5	162.8	100.5	52.67	36.38	25.73	17.49	11.43	10.50	5.30

Constant power discharge characteristic (W,25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60	2756	2268	1970	1257	668.7	438.4	313.3	214.2	141.4	127.3	64.58
9.90	2674	2200	1930	1232	645.2	436.3	311.8	213.1	140.0	126.6	64.27
10.20	2618	2155	1891	1207	632.0	429.8	308.7	211.0	139.4	126.1	64.01
10.50	2536	2087	1832	1169	612.3	425.6	305.6	208.9	138.6	125.7	63.79
10.80	2150	2025	1796	1146	600.4	421.2	302.5	206.8	137.2	125.4	63.63



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