JIANGSU OLITER ENERGY TECHNOLOGY CO., LTD

Jiangsu Oliter Energy Technology Co., Ltd was founded in 1998, covered 120.000M², annual throughput reaches 750000KVAH. **Oliter** has been focusing on the R&D, Production, Marketing and Application of VRLA GEL battery, OPZV and Lithium battery. By the support of South China Normal University, Xi ' An JiaoTong University and Other scientific research institutes, Oliter has built up the post-doctoral workstations. Till now, Oliter has achieved 7 series, more than 100 models of batteries. Depending on scientific structure, strict material selection and advanced manufacture process, Oliter GEL batteries are characteristic of long service life, excellent charge acceptance, low self-discharge, good deep discharge tolerance, strong recovery capability, high safety and environment – friendliness and RoHS commpliance.



JGFM2000-2 2V2000Ah

Battery Construction, Material and Features

Positive grids: Lead Oxide Negative grids: Lead	Grid adopts Pb Ca Sn Al alloy with 4.7mm thickness. 99,994% Pure Lead batteries of good corrosion resistance and long cycle life
Plates: Grid pasted with Lead powder and active material	Using humiditycuring temperature is 75°C and special additives from Japan and OPzV technology, rich utilization rate of active material, make battery has strong charging ability and long cycle life
Separator: PVC	With ultra-fine PVC separator, the batteries have high oxygen recombination capability up to 99,999%, low internal resistance, high rate discharge performance
Container: ABS Using high strength ABS material, the batteries are with anti-corrosion, anti-impact, high strength, appearance, free of potential leakage and deformation standard UL94-V0	
Terminals: CopperCopper core with large diameter and high conductivity, i corrosion resistance and strong current carrying capacity	
Electrolyte: Sulfuric Acid and Silicon GEL	High density nanoscale fumed silicon GEL electrolyte improved battery cycle life
Terminal Seal: Epoxy	Structure and high-temperature curing epoxy adhesiveto ensure batteries safety and reliability
Safety Valve: ABS and RubberUsing labyrinth structure, double filter acid explosion-proo structure, accurately control the open/close valve pressure at mist filtering function.	



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SPECIFICATIONS

Battery Type	GEL Battery				
Nominal Voltage	2V				
Nominal Capacity	2000Ah (10hr, to 1.8V, 25°C)				
Cell number	1				
Dimension (L*W*H)	399(mm)×212(mm)×802(mm)				
Designed Life (Float charge, 25 ^o C)	20 Years				
The reference weight	145.5 Kg				
Operation Ambient Temperature and Humidity	-45 °C~60°C, 5%~95%				
Optimal Ambient Temperature and Humidity	15ºC~25 ºC, 5%~95%				
Self-discharge Capacity	Self-discharge rate <2% per month (250C)				
Terminal	Copper Φ20(mm), 6xM8 Female				
Short circuit current	40,000A				
Max. discharge current (5s)	7,300A				
Internal Resistance	≤ 0.4mΩ (25 ⁰ C)				
	> 4280 times at 30% DoD				
Cycle life expected at 25 ^o C	> 2500 times at 50% DoD				
	> 1770 times at 80% DoD				
	> 1260 times at 100% DoD				
	GB/T19638-2014, YD/T1360-2005, ISO9001:2015,				
	IEC60896-2:2004, CE2004/108/EC, DIN43534,				
Product standards	IEC61427, RoHS, Eurobat Guide, ISO14001:2015,				
	BS6290 part 4, UL94-1985, OHSA18001:2007, EM				
	EN61000-3-2:2006+A2:2009, EN61000-3-3:2013,				
	DIN40742, JISC8704-2-2, ISO45001:2018, UL94-V				
	Communications, Communication station, Power				
	station, Power transmission and transformatio				
Applications range	system, Computer system protection, Emergency				
	power supply, UPS, Wireless stations and Standby				
	power automatic control, Solar, etc				
	The batteries are installed on a safe powder-coated				
	steel frame, the battery can be installed vertically of				
	horizontally depending on the ground. Includes a full				
Installations	range of installation accessories and electrical				
	safety protection. The installation layout is designed				
	according to the needs of the existing premises of				
	the customer.				









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国家金太阳 优质供应商



JGFM2000-2 2V2000Ah

Constant Discharge Ratings-Amperes/Cell at 25°C

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	5h	10h
1.6V/cell	4242.0	3272.6	2706.6	1848.0	1414.0	1171.4	694.0	510.6	346.6	205.4
1.65V/cell	3858.0	3000.0	2504.6	1747.4	1351.4	1151.4	690.6	508	344.6	204.0
1.70V/cell	3524.6	2757.4	2323.4	1646.0	1293.4	1121.4	687.4	505.4	343.4	203.4
1.75V/cell	3080.6	2535.4	2181.4	1596.0	1274.6	1111.4	684.0	502.6	341.4	202.0
1.80V/cell	2706.6	2343.4	2060.6	1535.4	1222.6	1040.0	665.0	500	340.0	200.0

Constant Power Discharge Ratings-Watts/Cell at 25°C

F.V/Time	5min	10min	15min	20min	30min	1h	2h	3h	5h	10h
1.60V/cell	6164.0	5294.6	4468.6	3108.0	2459.4	2050.0	1314.6	978.0	662.6	398.0
1.65V/cell	5660.6	4812.0	4087.4	2886.6	2320.0	1979.4	1274.6	952.0	650.6	390.6
1.70V/cell	4996.6	4410.0	3805.4	2696.0	2205.4	1919.4	1234.6	932.0	641.4	388.0
1.75V/cell	4483.4	4078.0	3544.0	2525.4	2081.4	1829.4	1204.6	912.6	630.6	382.6
1.80V/cell	4120.6	3735.4	3252.0	2364.6	1914.0	1748.6	1174.0	894.6	619.4	378.6

Discharge Current and Recommend Discharge Final Voltage Setting

Discharge Current	0.1C	0.17C	0.25C	0.55C	3C
Final Voltage (V)	1.8	1.8	1.8	1.75	1.6

Charge method

Туре	Voltage (V)	Compensation Coefficient	Charge Current (A)
Boost Charge	2.35~2.45	-4mV/ºC	0.1C~0.25C
Float Charge	2.25~2.30	-3mV/ºC	(200A~500A)









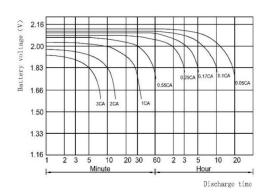




JGFM2000-2 2V2000Ah

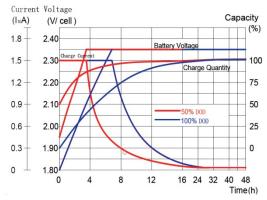
Characteristic curves

1. Discharging Curve

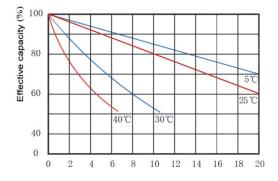


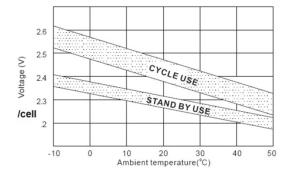
3.Self-discharge Characteristics

2. Charging Curve



4. Relationship of Charging Voltage and Temperature





5. Relationship of Capacity and Temperature 6. Effect of Temperature on Long Term Float Life

