

Application

Lead-acid batteries are a widely used type of battery, known for their low cost, stable performance, and high safety. They can be used as backup power for communication base stations, ensuring that communication equipment can still operate normally during power outages. They can also serve as emergency power sources, providing power support for emergency lighting and safety equipment. In addition, lead-acid batteries are suitable for backup power in medical and electronic devices, as well as for starting power in power tools. In energy storage systems, lead-acid batteries can be used for energy storage in renewable energy sources such as solar and wind power.



Characteristic

- Under 25°C, the designed floating life is up to 5 years.
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance.
- Compliance with IEC 61056, GB/T19639
- CE Certified
- Manufactured in TJATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

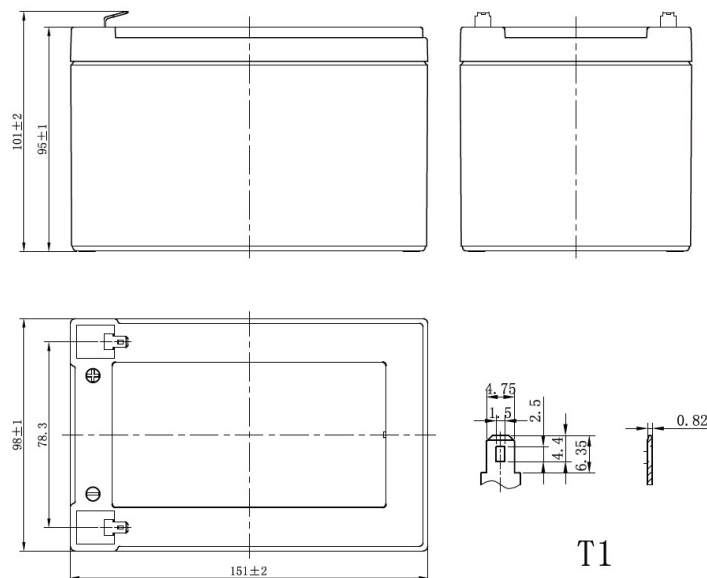
General Purpose Lead-acid battery DJW12-12 (12V12Ah)



Technical Parameter

Parameter	Value
Rated Voltage	12V
Nominal Capacity (Cref, 1.75V/cell)	12Ah
Dimensions	Length: 151±2mm (5.94 inches)
	Width: 98±1mm (3.86 inches)
	Container Height: 95±1mm (3.74 inches)
	Total Height (with terminals): 101±1mm (3.98 inches)
Approx Weight	3.24kg (7.14 lbs)
Terminal	T1/T2
Container Material	ABS
Rated Capacity (25°C)	12.0 Ah C20(0.600A, 1.75V/cell)
	11.2 Ah C10(1.12A, 1.75V/cell)
	10.2 Ah C6(2.04A, 1.75V/cell)
	9.00 Ah C3(3.00A, 1.75V/cell)
	7.20 Ah C1(7.20A, 1.60V/cell)
Max. Discharge Current	180A (5s)
Internal Resistance (25°C)	Approx 19mΩ
Operating Temp. Range	Discharge: -20 - 55°C (-4 - 131°F)
	Charge: -20 - 40°C (-4 - 104°F)
	Storage: -15 - 50°C (5 - 122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Max. Charging Current (25°C)	3.6A
Charge voltage (25°C)	Float: 2.25~2.30V/cell, Temp. Coefficient: -3mV/cell/°C
	Equalization: 2.35~2.40V/cell, Temp. Coefficient: -4mV/cell/°C
	Cycle: 2.40~2.50V/cell, Temp. Coefficient: -5mV/cell/°C
Effect of temp. to Capacity	40°C (104°F): 103%
	25°C (77°F): 100%
	0°C (32°F): 86%
Self-Discharge	≤3%/month @ 25°C

Layout



Constant Current Discharge (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.6	22.7	18.1	14.8	11.0	8.07	6.59	4.81	3.82	2.91	2.34	1.99	1.70	1.34	1.09	0.587
1.80V/cell	33.2	23.9	18.8	15.2	11.3	8.23	6.72	4.90	3.88	2.95	2.37	2.01	1.72	1.35	1.10	0.594
1.75V/cell	35.9	25.1	19.5	15.7	11.5	8.39	6.84	4.98	3.94	3.00	2.40	2.04	1.74	1.37	1.12	0.600
1.70V/cell	38.6	26.2	20.2	16.2	11.8	8.55	6.96	5.06	4.01	3.04	2.43	2.07	1.77	1.39	1.13	0.606
1.67V/cell	40.2	26.9	20.6	16.4	12.0	8.65	7.03	5.11	4.04	3.07	2.45	2.08	1.78	1.40	1.14	0.609
1.60V/cell	43.7	28.6	21.6	17.1	12.3	8.88	7.20	5.22	4.12	3.13	2.50	2.12	1.81	1.42	1.16	0.618

Constant Power Discharge (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	63.5	34.8	28.4	21.2	15.7	12.8	9.40	7.49	5.72	4.60	3.92	3.36	2.65	2.17	1.17	-
1.60V/cell	62.7	45.4	36.0	29.2	21.7	15.9	13.0	9.50	7.58	5.79	4.66	3.97	3.40	2.68	2.19	1.19
1.75V/cell	67.3	47.4	37.1	29.9	22.1	16.2	13.2	9.70	7.68	5.87	4.72	4.02	3.44	2.71	2.22	1.20

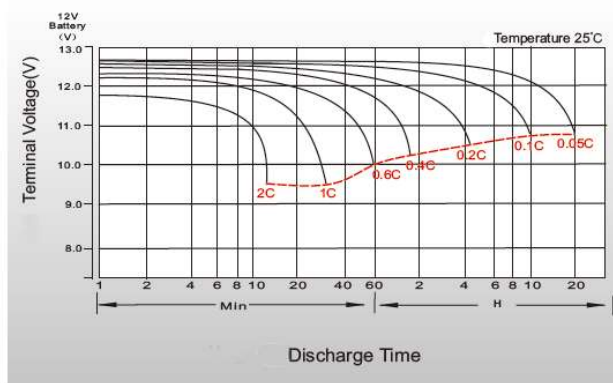
General Purpose Lead-acid battery DJW12-12 (12V12Ah)

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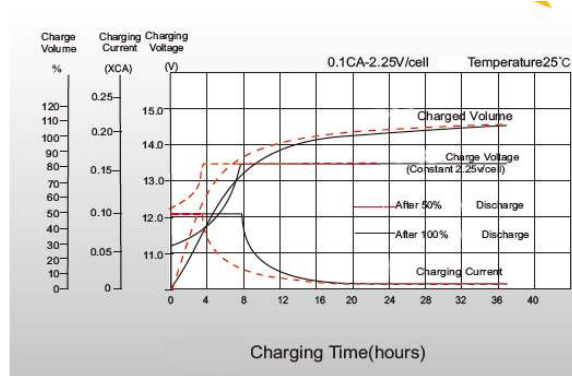
1.70V/cell	71.6	49.3	38.2	30.7	22.5	16.4	13.4	9.80	7.76	5.94	4.77	4.06	3.48	2.74	2.24	1.21
1.67V/cell	74.6	50.5	38.9	31.1	22.8	16.6	13.5	9.90	7.84	5.89	4.80	4.09	3.50	2.76	2.26	1.22
1.60V/cell	80.4	53.1	40.4	32.1	23.3	16.9	13.8	10.0	7.97	6.08	4.88	4.15	3.56	2.80	2.29	1.24

Battery curve specification

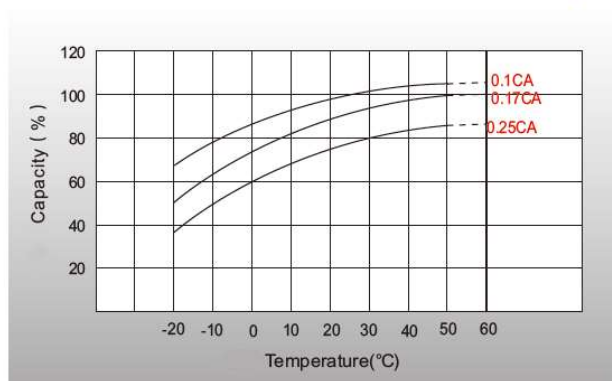
Discharge characteristic(25°C)



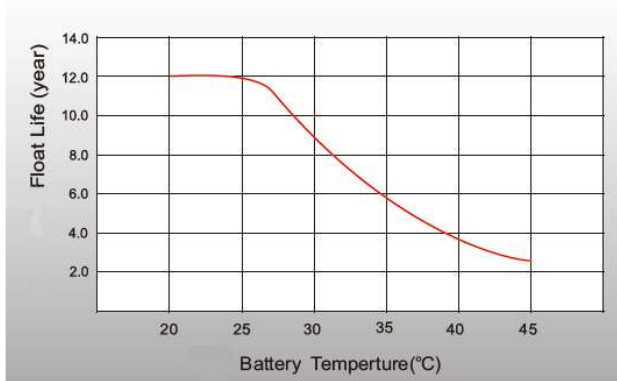
Float charging characteristic(25°C)



Effect of temperature on capacity



Relationship between charging voltage and temperature



Description

No.	PN	Description	QTY	Unit	Remark
1	DJW12-12	Lead-acid battery, General purpose type, DC12V, 12AH	1	PCS	

General Purpose Lead-acid battery DJW12-12 (12V12Ah)

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GLOBAL FOOTPRINT



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