

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

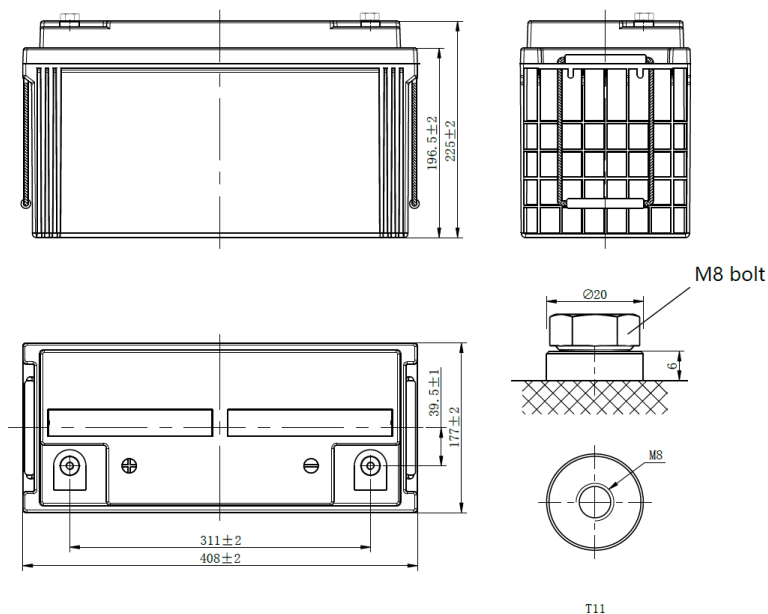
General Purpose Lead-acid battery DJM12120 (12V120Ah)



Technical Parameter

Parameter	Value`
Rated Voltage	12V
Nominal Capacity (C ₁₀ , 1.80V/cell)	120Ah
Dimensions	Length: 408±2mm (16.1 inches)
	Width: 177±2mm (6.97 inches)
	Container Height: 225±2mm (8.86 inches)
	Total Height (with terminals): 225±2mm (8.86 inches)
Approx Weight	35.0kg (77.2 lbs)
Terminal	T11(M8)
Container Material	ABS (UL94 HB or V-0 optional)
Max. Discharge Current	1200A (5s)
Short-circuit Current	2400A
Internal Resistance (25°C)	Approx 4.0mΩ
Operating Temp. Range	Discharge: -15 - 50°C (5 - 122°F)
	Charge: -20 - 40°C (-4 - 104°F)
	Storage: -15 - 40°C (5 - 104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Max. Charging Current (25°C)	36A
Charge voltage (25°C)	Float: 2.25~2.30V/cell, Temp. Coefficient: -3mV/cell/°C
	Equalization: 2.35~2.40V/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 at 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	234.7	166.9	150.8	118.6	106.1	77.5	65.7	47.6	40.0	29.4	23.0	20.0	17.6	13.6	11.2	5.96
1.80V/cell	266.9	189.4	170.9	134.1	115.5	82.1	68.1	49.2	41.3	31.9	24.6	21.0	18.9	14.3	12.0	6.17
1.75V/cell	289.9	205.4	185.1	144.8	117.8	85.1	71.4	51.8	43.5	32.5	25.1	21.4	19.1	14.3	12.1	6.24
1.70V/cell	309.9	219.0	196.5	153.5	120.2	86.8	72.8	52.8	44.4	33.1	25.5	21.8	19.2	14.6	12.2	6.30
1.67V/cell	320.8	226.0	202.3	157.7	122.0	88.1	73.9	53.6	45.0	33.4	25.9	22.2	19.3	14.8	12.3	6.38
1.60V/cell	332.1	233.7	208.6	161.8	123.7	89.3	75.0	54.3	45.7	33.7	26.2	22.5	19.4	14.9	12.4	6.45

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	438.3	313.9	285.6	225.6	202.7	149.0	127.1	92.4	77.9	57.4	45.2	39.4	34.8	26.9	22.3	11.9
1.80V/cell	490.3	351.2	319.5	252.4	218.9	156.8	130.9	95.0	80.0	62.0	48.1	41.2	37.2	28.2	23.4	12.3

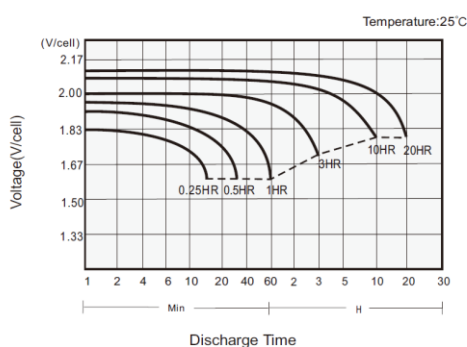
General Purpose Lead-acid battery DJM12120 (12V120Ah)

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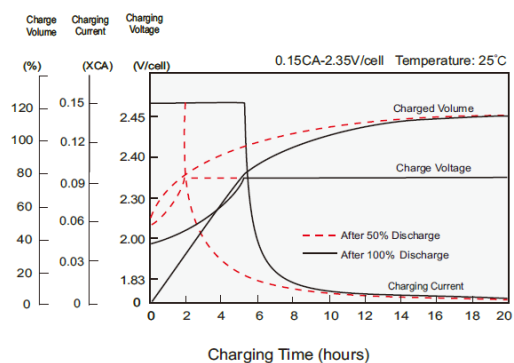
1.75V/cell	523.3	374.8	341.0	269.4	221.7	161.5	136.7	99.4	83.9	63.0	48.8	41.8	37.4	28.3	23.6	12.4
1.70V/cell	550.1	394.0	358.5	283.2	224.2	163.6	138.7	101.0	85.2	64.0	49.5	42.4	37.5	28.7	23.8	12.5
1.67V/cell	559.1	400.4	364.3	287.8	225.8	165.1	140.0	101.9	86.1	64.3	50.1	43.1	37.6	29.0	24.0	12.6
1.60V/cell	566.9	406.0	369.4	291.8	226.8	165.9	141.0	102.7	86.8	64.6	50.4	43.5	37.7	29.3	24.3	12.8

Battery curve specification

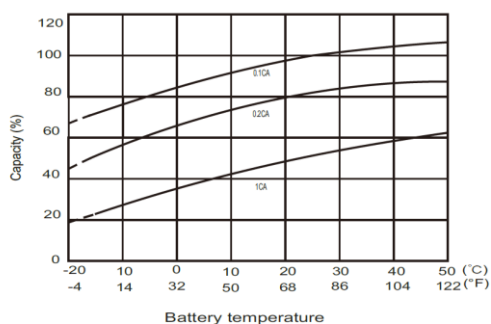
Discharge Characteristics



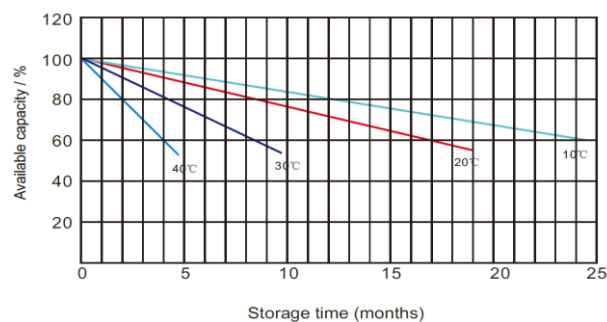
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



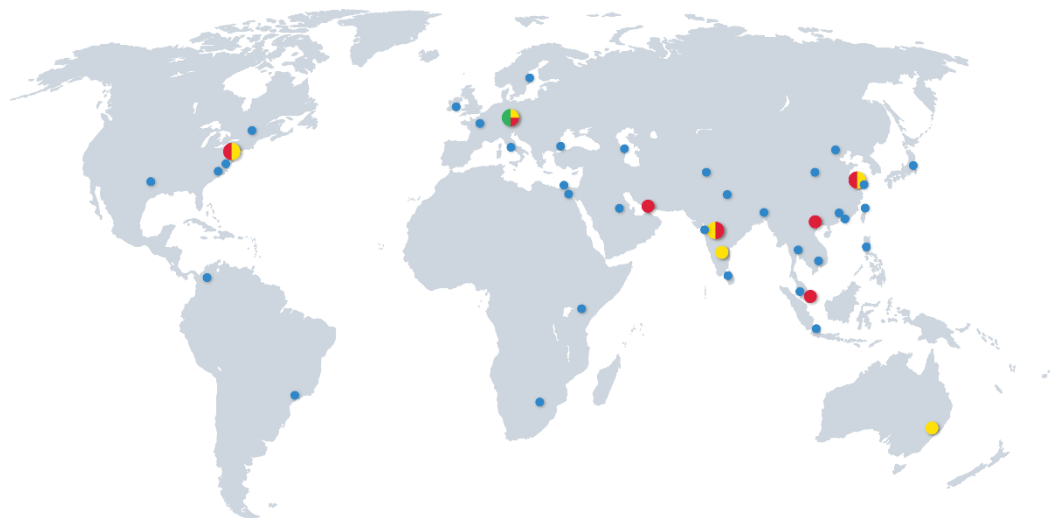
Description

No.	PN	Description	QTY	Unit	Remark
1	DJM12120	Lead-acid battery, General purpose type, DC12V, 120AH	1	PCS	

General Purpose Lead-acid battery DJM12120 (12V120Ah)

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GLOBAL FOOTPRINT



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