

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 DJM12100 (12V100Ah)



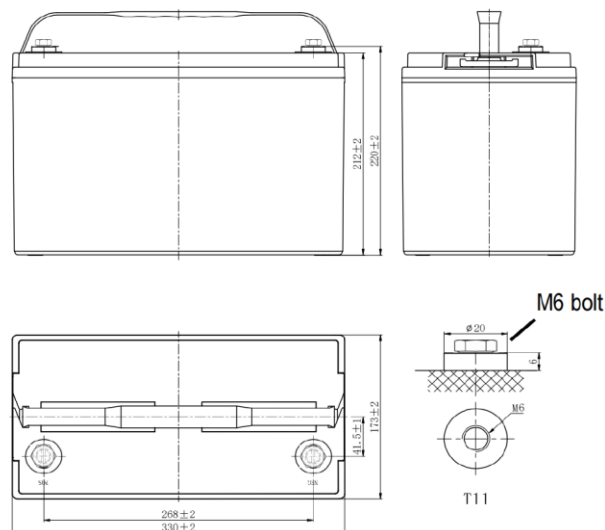
Technical Parameter

Parameter	Value
Rated Voltage	12V
Nominal Capacity (C ₁₀ , 1.80V/cell)	100Ah
Dimensions	Length: 330±2mm (13.0 inches)
	Width: 173±2mm (6.81 inches)
	Container Height: 213±2mm (8.39 inches)
	Total Height (with terminals): 220±2mm (8.66 inches)
Approx Weight	28.2kg (62.2 lbs)
Terminal	T11(M6)
Container Material	ABS (UL94 HB or V-0 optional)
Max. Discharge Current	1000A (5s)
Short-circuit Current	2000A
Internal Resistance (25°C)	Approx 4.9mΩ
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)	30A
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

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Layout



Constant Current Discharge (25°C)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	139.2	125.7	98.9	88.4	64.6	54.7	33.4	24.5	19.2	16.7	14.7	11.3	9.36	4.96
1.80V/cell	158.0	142.4	111.8	96.2	68.5	56.7	34.4	26.6	20.5	17.5	15.8	11.9	10.0	5.15
1.75V/cell	171.3	154.2	120.7	98.2	71.0	59.5	36.3	27.1	20.9	17.8	15.9	11.9	10.1	5.20
1.70V/cell	182.7	163.8	127.9	100.2	72.4	60.7	37.0	27.6	21.2	18.1	16.0	12.1	10.2	5.25
1.67V/cell	188.5	168.6	131.4	101.6	73.4	61.6	37.5	27.9	21.6	18.5	16.1	12.3	10.3	5.31
1.60V/cell	194.9	173.8	134.8	103.1	74.5	62.5	38.1	28.1	21.8	18.8	16.2	12.5	10.4	5.38

Constant Power Discharge (25°C)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	261.8	238.0	188.0	168.9	124.3	105.9	64.9	47.8	37.7	32.8	29.0	22.4	18.6	9.89
1.80V/cell	292.9	266.2	210.3	182.4	130.8	109.1	66.7	51.7	40.1	34.4	31.1	23.5	19.5	10.2
1.75V/cell	312.6	284.1	224.5	184.7	134.7	114.0	69.9	52.5	40.7	34.9	31.2	23.6	19.6	10.3

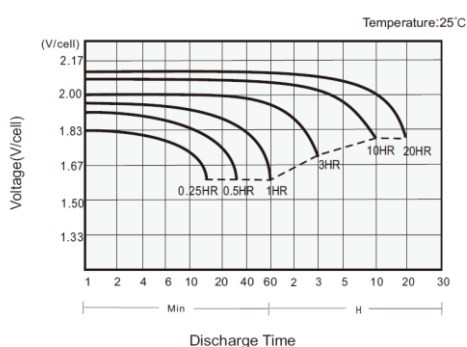
General Purpose Lead-acid battery DJM12100 (12V100Ah)

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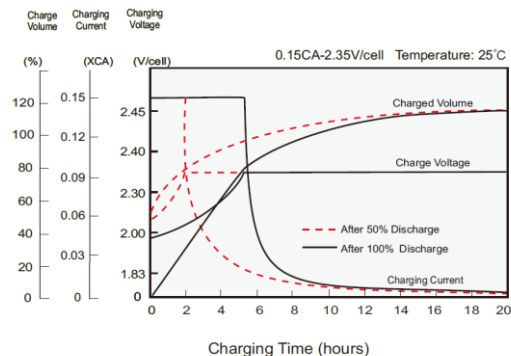
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.70V/cell	328.6	298.7	236.0	186.8	136.5	115.6	71.0	53.3	41.2	35.3	31.3	23.9	19.8	10.4
1.67V/cell	334.0	303.6	239.8	188.2	137.7	116.7	71.8	53.6	41.7	35.9	31.4	24.2	20.0	10.5
1.60V/cell	338.7	307.8	243.2	189.0	138.4	117.5	72.3	53.8	42.0	36.3	31.5	24.5	20.2	10.6

Battery curve specification

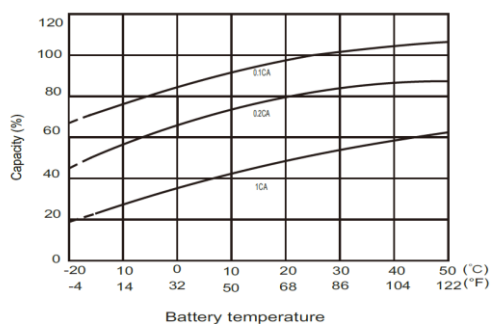
Discharge Characteristics



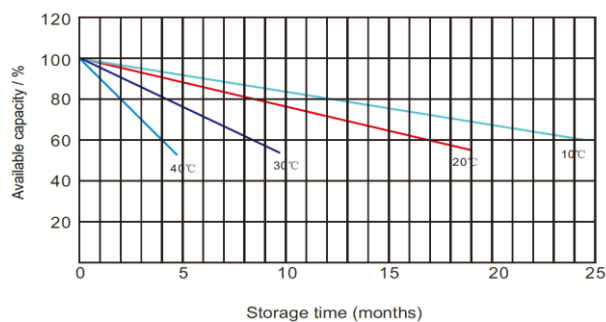
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



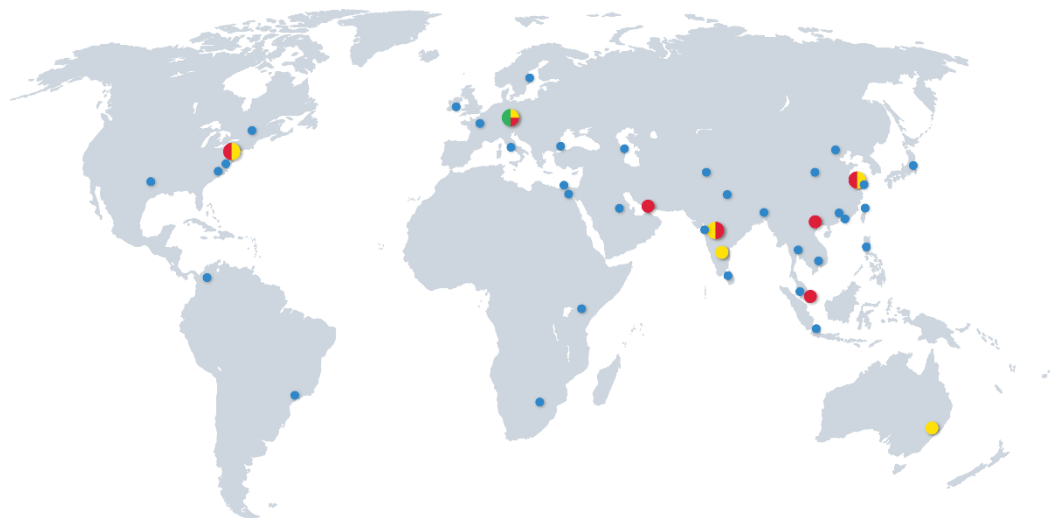
Description

No.	PN	Description	QTY	Unit	Remark
1	DJM12100	Lead-acid battery, General purpose type, DC12V, 100AH	1	PCS	

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GLOBAL FOOTPRINT



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