

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.



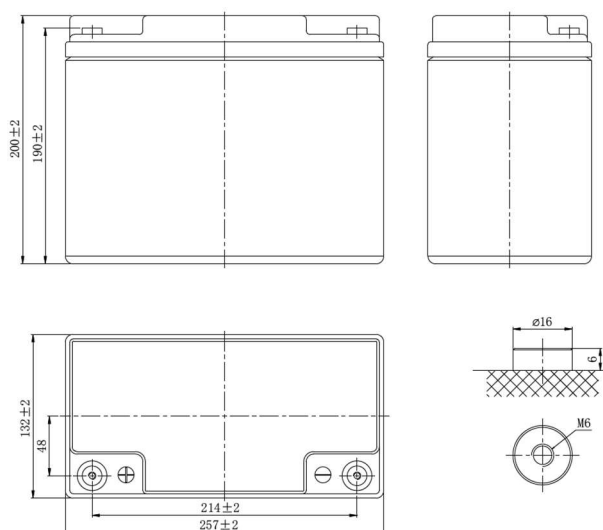
Characteristic

- 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

Technical Parameter

Parameter	Value
Rated Voltage	12V
Nominal Capacity (C ₁₀ , 1.80V/cell)	50Ah
Dimensions	Length: 257±2mm (10.1 inches)
	Width: 132±2mm (5.20 inches)
	Container Height: 200±2mm (7.87 inches)
	Total Height (with terminals): 200±2mm (7.87 inches)
Approx Weight	15.7kg (34.6 lbs)
Terminal	T6(M6)
Container Material	ABS (UL94 HB or V-0 optional)
Max. Discharge Current	500A (5s)
Short-circuit current	1250A
Internal Resistance (25°C)	Approx 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)	0.3C
Charge voltage (25°C)	Float: 2.25~2.30V/cell, Temp. Coefficient: -3mV/cell/°C
	Cycle: 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	8h	10h	20h
1.85V/cell	102.0	72.5	64.1	50.4	45.1	33.0	27.9	20.2	17.0	12.5	9.79	8.50	7.49	5.76	4.78
1.80V/cell	115.9	82.3	72.7	57.0	49.1	34.9	28.9	20.9	17.6	13.6	10.5	8.94	8.05	6.06	5.00
1.75V/cell	125.9	89.2	78.7	61.6	50.1	36.2	30.4	22.0	18.5	13.8	10.7	9.10	8.11	6.09	5.05
1.70V/cell	134.6	95.1	83.6	65.3	51.1	36.9	31.0	22.4	18.9	14.1	10.8	9.25	8.15	6.19	5.10
1.67V/cell	139.3	98.2	86.0	67.1	51.9	37.5	31.4	22.8	19.1	14.2	11.0	9.44	8.19	6.28	5.17
1.60V/cell	144.3	101.5	88.7	68.8	52.6	38.0	31.9	23.1	19.4	14.3	11.1	9.57	8.25	6.36	5.23

Constant Power Discharge (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	184.6	132.2	119.0	94.0	84.4	62.1	52.9	38.5	32.4	23.9	18.8	16.4	14.5	11.2	9.31
1.80V/cell	206.5	147.9	133.1	105.2	91.2	65.4	54.5	39.6	33.3	25.8	20.0	17.2	15.5	11.8	9.73
1.75V/cell	220.4	157.8	142.1	112.2	92.4	67.4	57.0	41.4	35.0	26.3	20.3	17.4	15.6	11.8	9.82

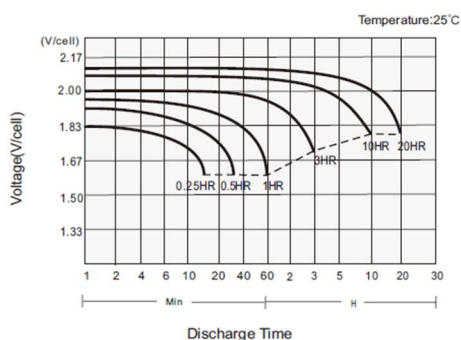
General Purpose Lead-acid battery DJM1250 (12V50Ah)

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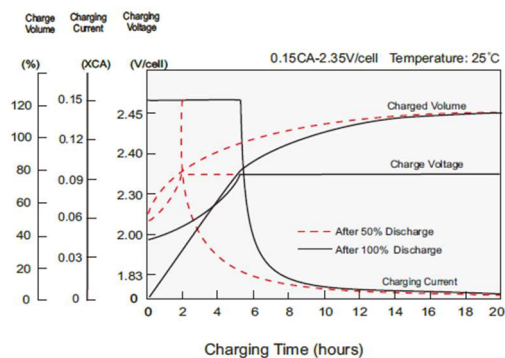
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h	20h
1.70V/cell	231.7	165.9	149.4	118.0	93.4	68.2	57.8	42.1	35.5	26.7	20.6	17.7	15.7	12.0	9.91
1.67V/cell	235.4	168.6	151.8	119.9	94.1	68.8	58.3	42.5	35.9	26.8	20.9	18.0	15.7	12.1	10.0
1.60V/cell	238.7	171.0	153.9	121.6	94.5	69.2	58.8	42.8	36.2	26.9	21.0	18.1	15.7	12.2	10.1

Battery curve specification

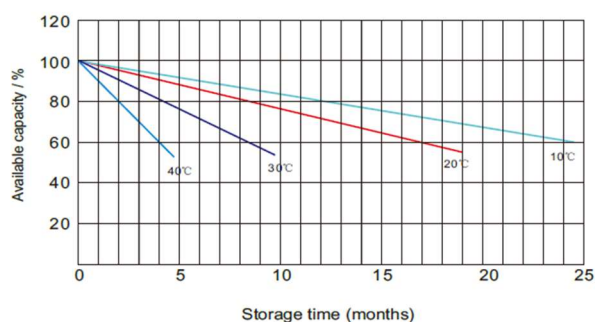
Discharge Characteristics



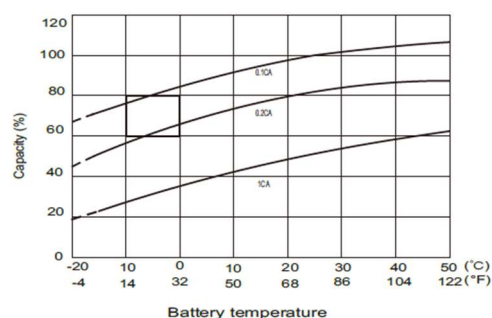
Charging Characteristics



Self Discharge Characteristics



Effects of Temperature on Capacity



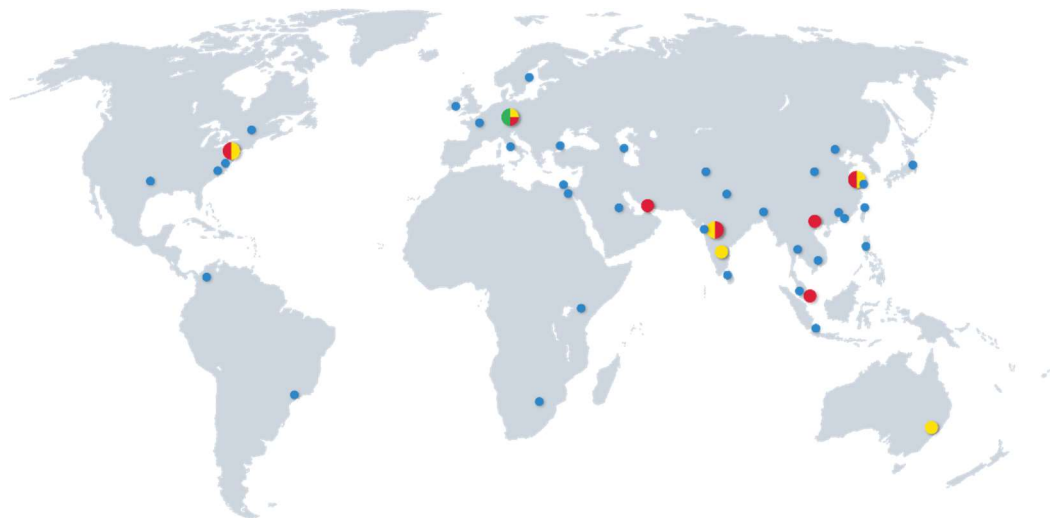
Description

No.	PN	Description	QTY	Unit	Remark
1	DJM1250	Lead-acid battery, General purpose type, DC12V, 50AH	1	PCS	

General Purpose Lead-acid battery DJM1250 (12V50Ah)

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GLOBAL FOOTPRINT



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