

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.



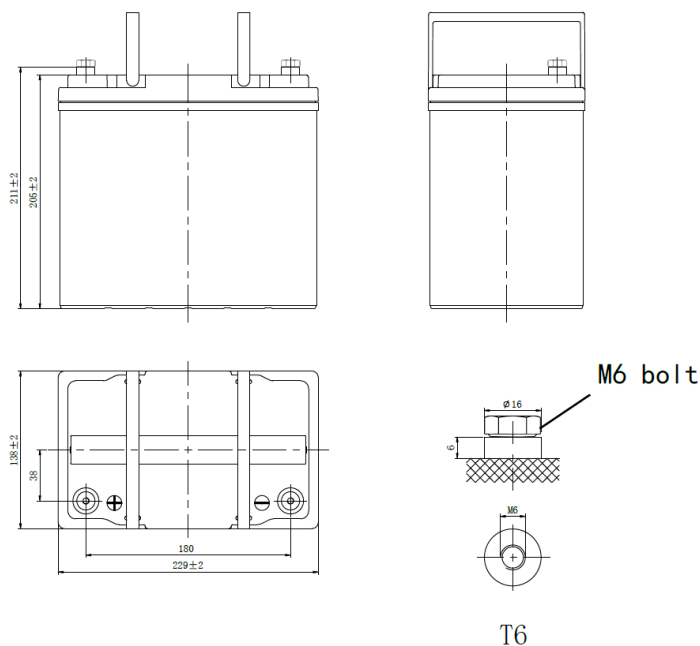
Characteristic

- 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)	55Ah
Dimensions	Length: 229±2mm (9.02 inches)
	Width: 138±2mm (5.43 inches)
	Container Height: 205±2mm (8.07 inches)
	Total Height (with terminals): 211±2mm (8.31 inches)
Approx Weight	16.2kg (35.7 lbs)
Terminal	T6(M6)
Container Material	ABS (UL94 HB or V-0 optional)
Max. Discharge Current	550A (5s)
Short-circuit Current	1265A
Internal Resistance (25°C)	Approx 9.0mΩ
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)	16.5A
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	6h	8h	10h	20h
1.85V/cell	112.1	79.7	70.5	55.5	49.6	36.3	30.7	22.3	18.7	13.7	10.8	9.35	8.24	6.34	5.25	2.79
1.80V/cell	127.5	90.5	79.9	62.7	54.0	38.4	31.8	23.0	19.3	14.9	11.5	9.83	8.86	6.67	5.50	2.89
1.75V/cell	138.5	98.2	86.5	67.7	55.1	39.8	33.4	24.2	20.4	15.2	11.7	10.0	8.93	6.70	5.56	2.92
1.70V/cell	148.1	104.7	91.9	71.8	56.2	40.6	34.1	24.7	20.8	15.5	11.9	10.2	8.97	6.81	5.61	2.95
1.67V/cell	153.3	108.0	94.6	73.8	57.0	41.2	34.6	25.1	21.1	15.6	12.1	10.4	9.01	6.90	5.68	2.98
1.60V/cell	158.7	111.7	97.5	75.7	57.9	41.8	35.1	25.4	21.4	15.8	12.2	10.5	9.08	6.99	5.75	3.02

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	203.0	145.4	133.6	105.5	94.8	69.7	59.4	43.2	36.4	26.8	21.1	18.4	16.3	12.6	10.4	5.55
1.80V/cell	227.1	162.7	149.4	118.0	102.4	73.4	61.2	44.4	37.4	29.0	22.5	19.3	17.4	13.2	10.9	5.74

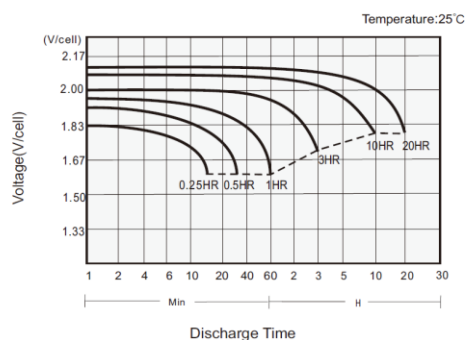
General Purpose Lead-acid battery DJM1255(12V/55Ah)

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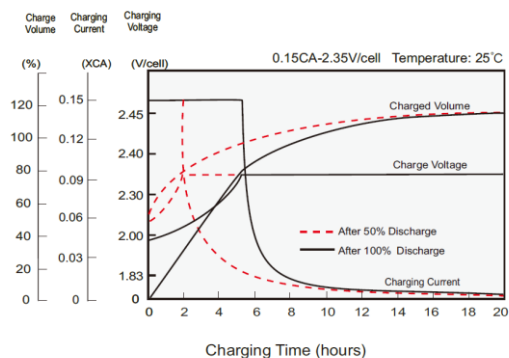
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.75V/cell	242.4	173.6	159.5	126.0	103.7	75.6	64.0	46.5	39.2	29.5	22.8	19.6	17.5	13.2	11.0	5.79
1.70V/cell	254.8	182.5	167.6	132.4	104.9	76.6	64.9	47.2	39.9	29.9	23.1	19.8	17.6	13.4	11.1	5.84
1.67V/cell	259.0	185.5	170.4	134.6	105.6	77.3	65.5	47.7	40.3	30.1	23.4	20.2	17.6	13.6	11.2	5.91
1.60V/cell	262.6	188.1	172.8	136.5	106.1	77.7	66.0	48.0	40.6	30.2	23.6	20.4	17.7	13.7	11.4	5.97

Battery curve specification

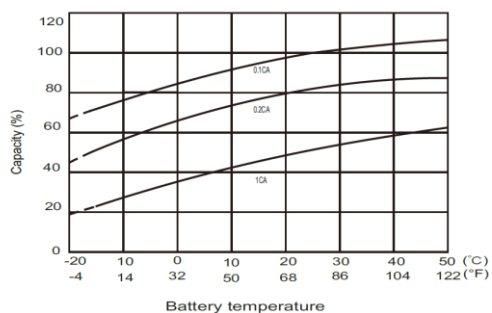
Discharge Characteristics



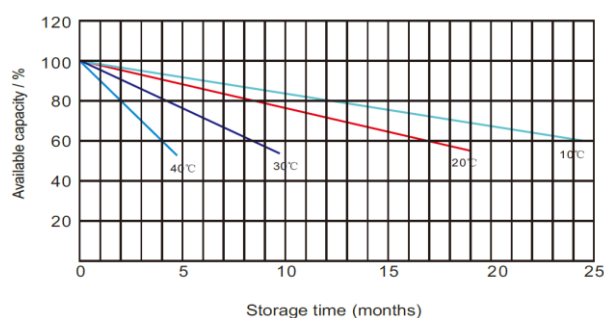
Charging Characteristics



Effects of Temperature on Capacity



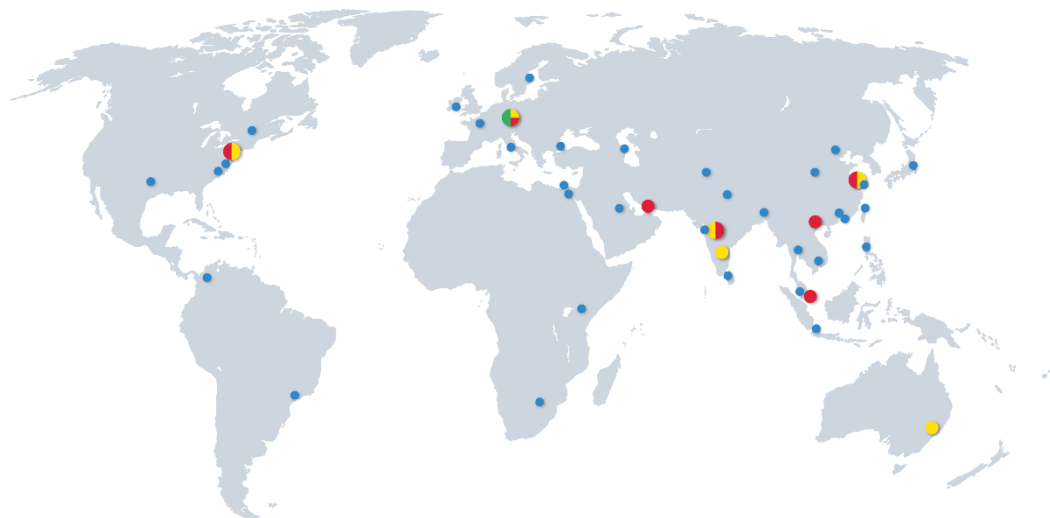
Self Discharge Characteristics



Description

No.	PN	Description	QTY	Unit	Remark
1	DJM1255	Lead-acid battery, General purpose type, DC12V, 55AH	1	PCS	

GLOBAL FOOTPRINT



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