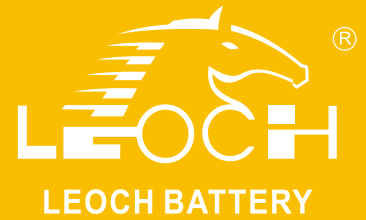


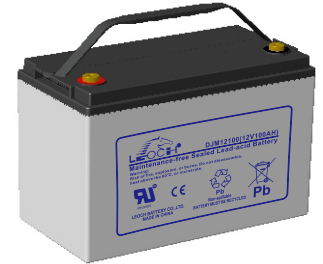


# DJM Series-General Purpose DJM12100(12V100Ah)

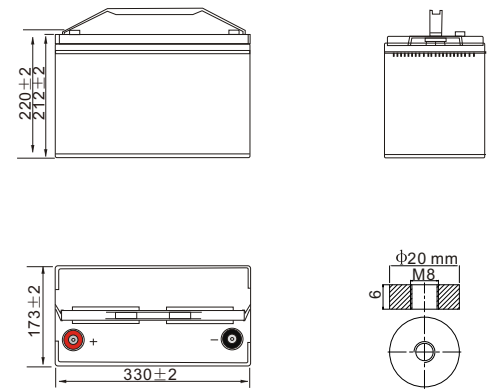


## Specifications

Rated Voltage	12V	
Nominal Capacity	100.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	330±2mm (12.99 inches)
	Width	173±2mm (6.81 inches)
	Container Height	213±3mm (8.39 inches)
	Total Height	220±3mm (8.66 inches)
Approx Weight	29.1 Kg (61.7 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	106.0 Ah	(20hr, 5.30A, 1.80V/cell)
	100.0 Ah	(10hr, 10.0A, 1.80V/cell)
	87.5Ah	(5hr, 17.5A, 1.75V/cell)
	79.5 Ah	(3hr, 26.5A, 1.75V/cell)
	67.1 Ah	(1hr, 67.1A, 1.60V/cell)
Max. Discharge Current	1000A (5s)	
Internal Resistance (25°C)	Approx 4.9mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 30.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 30.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
Self Discharge	0°C (32°F)	86%
	DJM series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



## Layout



## Constant Current Discharge (Amperes) at 25 °C (77°F)

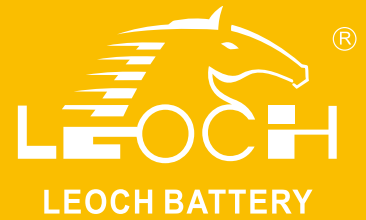
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	208.1	155.4	129.4	108.7	83.6	62.4	52.7	39.5	31.6	23.9	19.0	15.9	13.8	11.2	9.40	5.02
1.80V/cell	242.6	183.2	150.5	125.3	94.5	69.7	58.3	43.2	34.4	25.8	20.5	17.1	14.8	12.0	10.0	5.30
1.75V/cell	264.8	196.4	159.2	131.5	98.8	72.6	60.5	44.7	35.5	26.5	21.0	17.5	15.1	12.2	10.2	5.37
1.70V/cell	286.7	209.5	168.2	138.4	103.1	75.3	62.7	46.2	36.6	27.3	21.5	17.9	15.4	12.4	10.3	5.44
1.67V/cell	299.4	217.2	173.5	142.3	105.7	77.0	64.0	47.0	37.2	27.7	21.8	18.1	15.6	12.6	10.4	5.48
1.60V/cell	330.0	235.0	186.0	151.5	111.7	81.0	67.1	49.1	38.8	28.7	22.6	18.7	16.0	12.9	10.6	5.57

## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	395.4	297.4	248.6	209.5	161.5	120.9	102.4	77.1	61.8	46.8	37.4	31.3	27.2	22.1	18.5	10.0
1.80V/cell	454.0	346.5	286.1	239.1	181.1	134.2	112.6	83.8	66.9	50.4	40.1	33.6	29.1	23.7	19.8	10.5
1.75V/cell	487.9	367.0	299.5	248.5	187.7	138.6	115.9	86.1	68.6	51.5	41.0	34.2	29.6	24.0	20.0	10.7
1.70V/cell	519.8	386.3	313.0	258.9	194.2	142.8	119.4	88.5	70.4	52.8	41.9	34.9	30.2	24.4	20.3	10.8
1.67V/cell	537.5	397.3	323.6	264.5	198.0	145.2	121.3	89.7	71.3	53.4	42.3	35.3	30.5	24.6	20.5	10.9
1.60V/cell	577.5	421.2	337.7	277.2	206.5	151.1	126.0	93.0	73.8	55.1	43.5	36.2	31.2	25.1	20.9	11.0



# DJM Series-General Purpose DJM12100(12V100Ah)



## Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

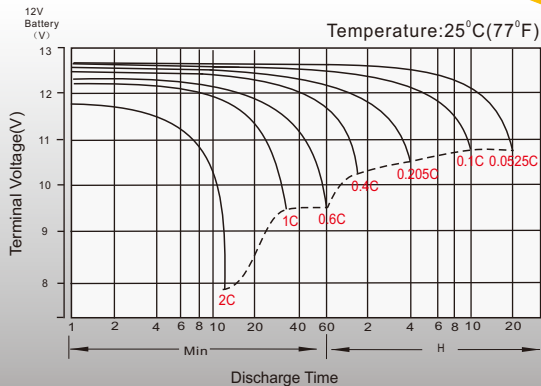
## General Features

- 8 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

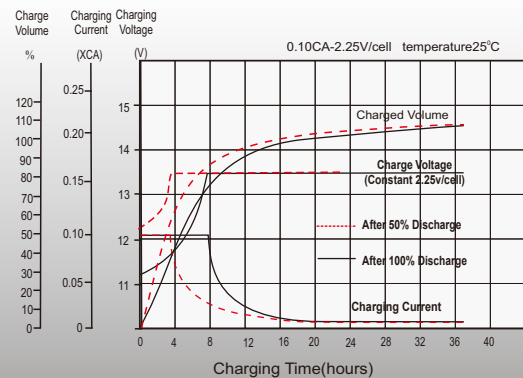
## Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

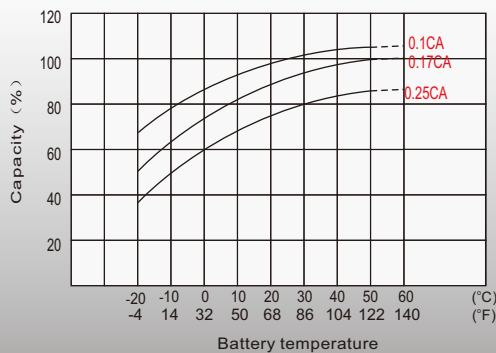
## Discharge Characteristics



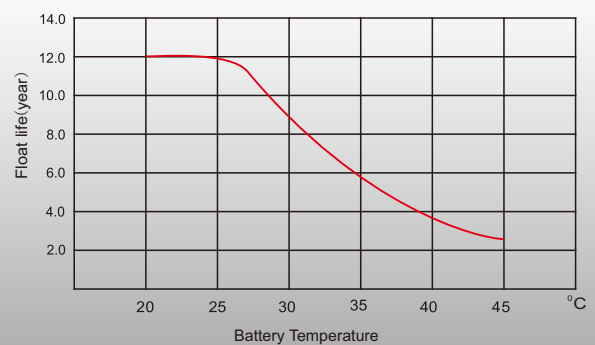
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Float Service Life



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