

CL2-100

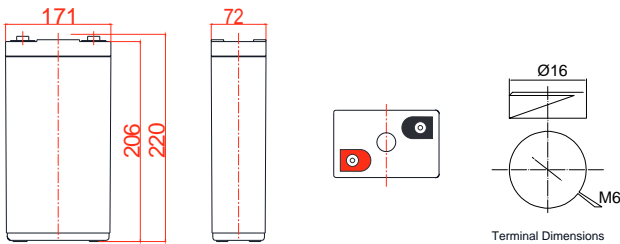


General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > Long life
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology



Dimension: 171(L)×72(W) ×206(H)×220(TH) Unit: mm



Applications

- > Telecommunications system
- > Power systems
- > UPS/EPS
- > Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

Specification

Nominal Voltage	2V
Nominal Capacity	100Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 6.00kg (13.2lbs)
Container Material	ABS

Rated Capacity	100Ah	10Hour Rate (10.0A to 1.80V)
		3Hour Rate (27.3A to 1.70V)
	66.6Ah	1Hour Rate (66.6A to 1.60V)
Internal resistance	Full charged at 25°C: 1.20 m	
Max. Discharge Current	1000A(5S)	
Operating Temperature	Discharge:	-20 ~50 (-4~ 122°F)
	Charge :	-20 ~50 (-4~ 122°F)
	Storage:	-20 ~50 (-4~ 122°F)

Charge current:	Max. 25A	Recom.10.0A
Charge Method (25 °C)	Float Charge:	2.23-2.27V, recom.2.25V(-3mV / °C)
	Equalize charge:	2.30-2.35V, recom.2.35V(-4mV / °C)
	Cycle charge:	2.40-2.50V, recom.2.40V(-5mV / °C)
Self discharge	3% of capacity declined per month at 25°C	

Constant Current Discharge Characteristics Unit: A (25 , 77)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h		2h3h	4h	5h	6h		8h10h20h
1.60V	349	232	175	106	81.7	66.6	43.9	39.3	28.8	21.1	19.4	15.6	13.2	10.8 5.79
1.65V	322	220	162	100	77.5	63.2	43.5	38.4	28.1	20.9	18.9	15.4	13.0	10.7 5.74
1.70V	299	210	152	94	74.1	60.4	43.1	37.0	27.3	20.7	18.8	15.3	12.8	10.6 5.66
1.75V	265	200	138	87	70.7	57.6	42.3	35.7	26.5	20.3	18.2	15.0	12.6	10.4 5.57
1.80V	228	188	125	82	66.1	53.9	40.7	33.7	25.6	19.5	17.8	14.4	12.4	10.0 5.35
1.85V	200	171	109	73	60.2	49.1	40.3	31.4	24.3	19.3	17.2	14.3	12.0	9.90 5.30

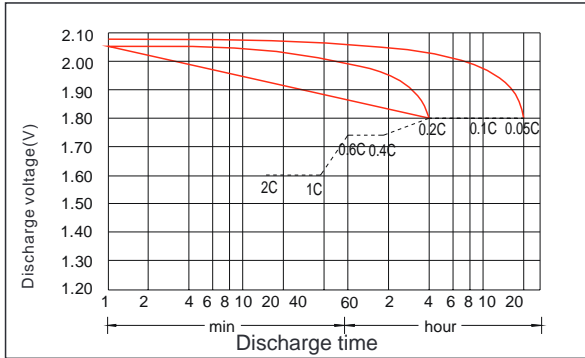
Constant Power Discharge Characteristics Unit: W/cell (25 , 77)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h		2h3h	4h	5h	6h		8h10h20h
1.60V	637	427	311	195	164	137	96.6	82.5	60.5	45.8	41.0	33.6	27.8	22.9 12.2
1.65V	572	396	297	187	152	127	94.5	79.9	58.3	44.8	39.7	32.9	27.3	22.4 12.0
1.70V	546	378	282	179	145	121	91.6	76.9	56.1	43.4	39.0	31.8	26.7	21.7 11.6
1.75V	491	362	270	173	139	116	90.3	74.1	54.0	42.8	38.0	31.4	25.7	21.4 11.5
1.80V	428	340	254	167	131	109	89.0	70.6	52.1	42.2	36.9	30.9	25.1	21.1 11.3
1.85V	382	315	219	149	121	101	85.7	64.6	49.4	40.6	35.3	29.8	24.3	20.3 10.8

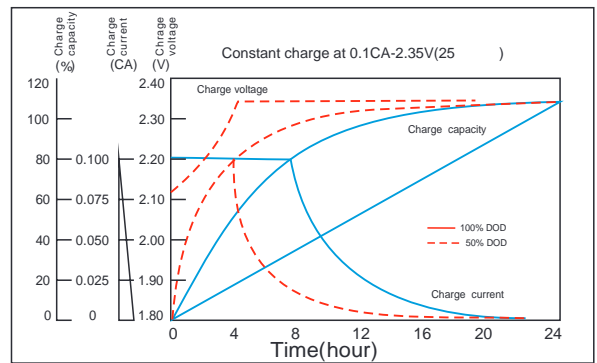
CL series lead-acid battery

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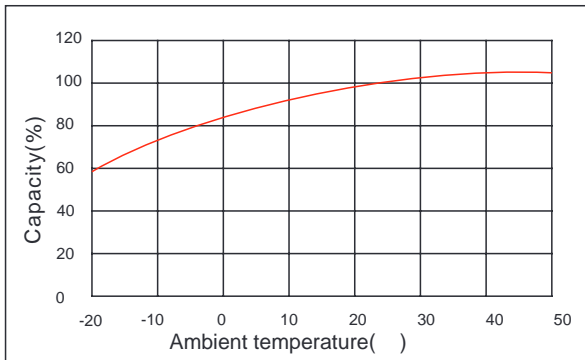
Discharge characteristic



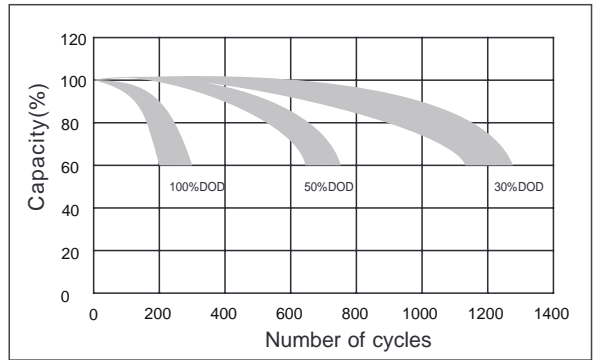
Charging characteristic



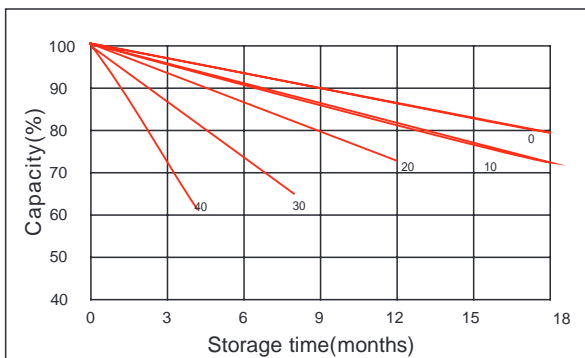
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

