

## CL2-300

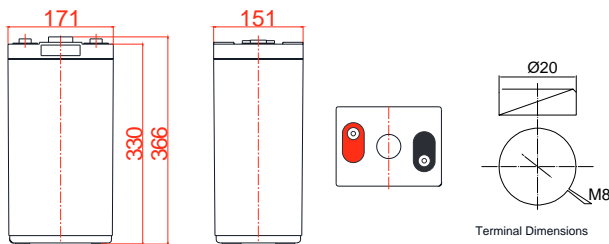


### General Features

- > 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)x151(W) x330(H)x366(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	300Ah		
Design life	15 years		
Terminal	M8		
Approx. Weight	Approx 18.0kg (39.7lbs)		
Container Material	ABS		
Rated Capacity	300.0Ah	10Hour Rate	(30.0A to 1.80V)
	245.7Ah	3Hour Rate	(81.9A to 1.70V)
	200.0Ah	1Hour Rate	(200A to 1.60V)
Internal resistance	Full charged at 25°C: 0.55 m		
Max. Discharge Current	3000A(5S)		
Operating Temperature	Discharge:	-20 ~50	(-4~ 122°F)
	Charge :	-20 ~50	(-4~ 122°F)
	Storage:	-20 ~50	(-4~ 122°F)
Charge current:	Max. 60A Recom.30.0A		
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	1049	696	526	319	245	200	132	118	86.5	63.4	58.2	46.9	39.5	32.5 17.4
1.65V	968	661	485	300	233	190	131	115	84.3	62.8	56.8	46.4	38.9	32.2 17.2
1.70V	895	630	455	281	222	181	129	111	81.9	61.8	56.3	45.7	38.3	31.7 17.0
1.75V	797	602	414	262	212	173	127	107	79.4	60.8	54.7	45.0	37.9	31.2 16.7
1.80V	685	564	375	245	199	162	122	101	76.9	58.5	53.4	43.3	37.1	30.0 16.1
1.85V	600	512	327	218	180	147	121	94.2	73.0	57.9	51.6	42.8	36.1	29.7 15.9

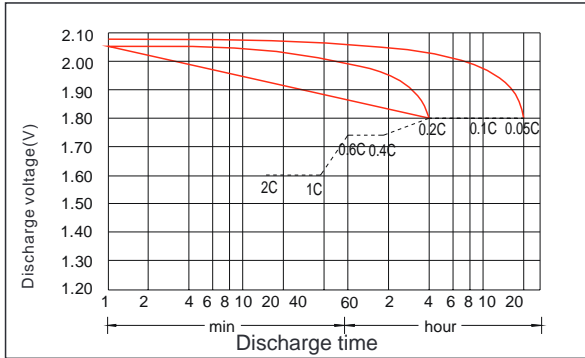
### Constant Power Discharge Characteristics Unit: Wcell (25 , 77 )

FV/Time	5min	10min	15min	30min	45min	1h	1.5h		2h3h	4h	5h	6h		8h10h20h
1.60V	1914	1285	932	584	494	412	290	247	182	137	123	101	83.3	68.7 36.7
1.65V	1715	1189	892	561	457	381	284	240	175	134	119	98.6	82.0	67.2 35.9
1.70V	1639	1133	848	538	436	363	275	231	168	130	117	95.6	80.2	65.2 34.9
1.75V	1474	1086	813	520	418	348	271	222	162	128	114	94.2	77.2	64.2 34.4
1.80V	1287	1023	764	502	394	328	267	212	156	126	111	92.7	75.2	63.2 33.8
1.85V	1145	945	657	446	364	303	257	194	148	122	106	89.2	72.8	60.8 32.5

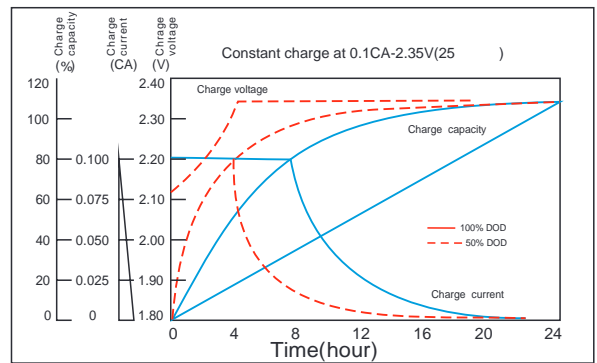
# CL series lead-acid battery

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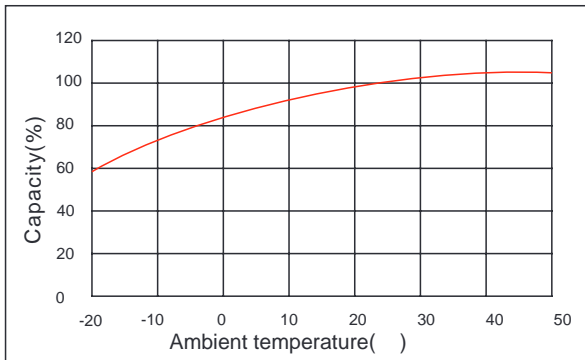
Discharge characteristic



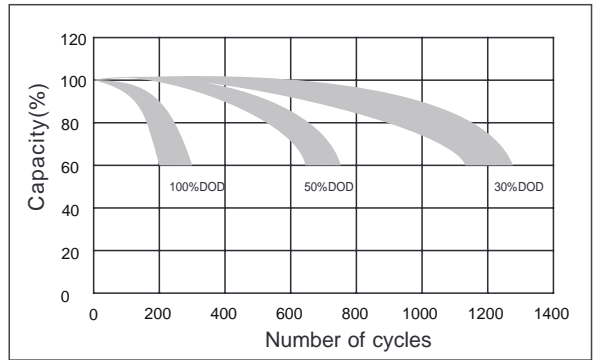
Charging characteristic



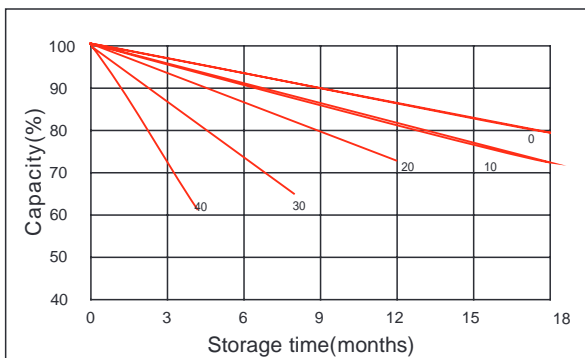
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

