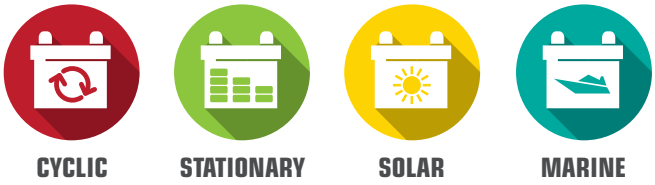
TECHNICAL DATA SHEET

DLC12-200EV

Applications



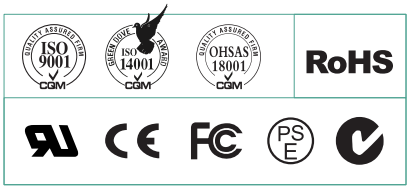
Application

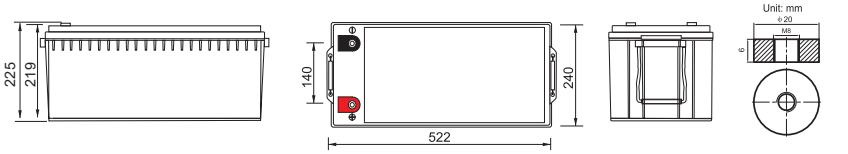
- Renewable Energy Storage
- Solar/wind generating storage cyclic
- Hybrid Energy Power Storage
- New Energy Vehicle
- Hybrid Electric Vehicle
- Backup power supply
- Other Standby, Cyclic Power Systems

Specification

Nominal Voltage	12V	
Nominal Capacity	214AH	
Design life	12 years	
Terminal	T13(M8)	
Approx. Weight	Approx 62.5kg (137.8lbs)	
Container Material	ABS	
Rated Capacity	200Ah	10Hour Rate (20.0A to 10.8V)
	160Ah	3Hour Rate (53.4A to 10.8V)
	128Ah	1Hour Rate (128A to 10.5V)
Internal resistance	Full charged at 25°C: 3.2 mOhms	
Max. Discharge Current	1800A(5S)	
Operating Temperature	Discharge: -40 ~60℃(-40~ 140°F) Charge: -20 ~50℃(-4~ 122°F) Storage: -20 ~50℃(-4~ 122°F)	
Charge Method (25 °C)	Max. charge Current: 100A Cycle use: 14.4-14.8V(-5mV/ °C) Float use : 13.5-13.8V(-3mV/ °C) Float current: ≤ 1.0A	
Self discharge	3% of capacity declined per month at 20°C	

Unit: mm Dimension: 522(L)×240(W) ×219(H)×225(TH)





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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	482	340	289	230	192	133	119	70.1	50.6	38.6	33.7	28.4	23.0	19.5	10.5
1.80V/cell	541	381	325	253	203	139	122	73.7	53.6	41.4	35.6	30.0	24.0	20.0	10.7
1.75V/cell	603	417	348	267	213	145	126	75.1	54.0	42.5	36.5	30.6	24.2	20.2	10.8
1.70V/cell	656	424	359	279	217	150	127	76.2	54.4	43.5	36.8	31.2	24.4	20.4	10.8
1.65V/cell	683	435	367	293	223	153	128	76.8	55.0	44.2	37.3	31.8	24.6	20.6	10.9
1.60V/cell	705	453	379	306	227	157	129	77.2	55.6	44.8	37.6	32.2	24.8	20.8	10.9

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

F.V/Time	5M	10M	15M	20min	30M	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	865	615	544	432	368	259	229	137	98.6	74.1	66.1	55.4	45.1	37.8	21.0
1.80V/cell	969	672	608	470	401	272	248	142	101	79.6	69.2	58.2	46.6	38.5	21.2
1.75V/cell	1054	705	643	483	407	283	249	145	105	81.5	70.2	58.9	47.0	38.8	21.3
1.70V/cell	1131	745	647	494	412	294	251	146	105	83.4	70.6	59.9	47.4	39.2	21.4
1.65V/cell	1136	769	655	505	414	298	254	147	107	85.9	71.2	61.0	47.6	39.6	21.5
1.60V/cell	1181	793	668	516	417	303	255	147	109	88.1	72.0	62.1	48.0	40.1	21.6

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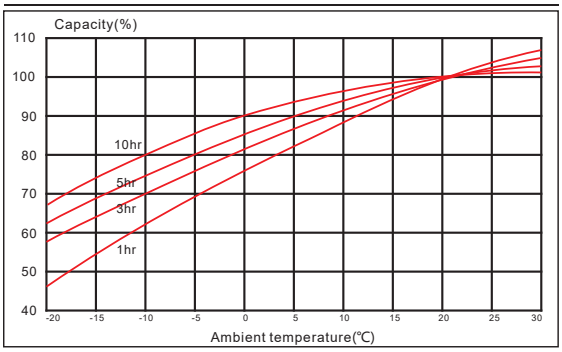
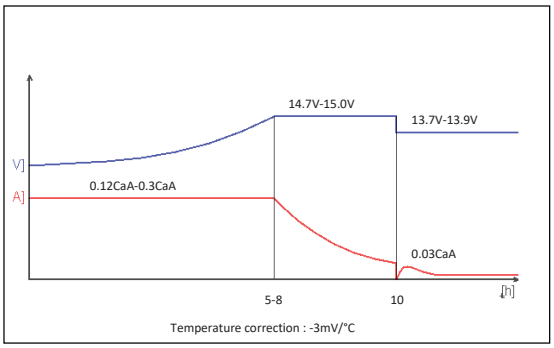
Model Performance Diagrams

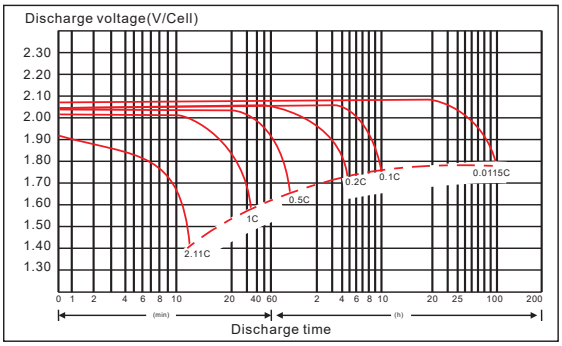
Curves of discharge capacity and ambient temperature



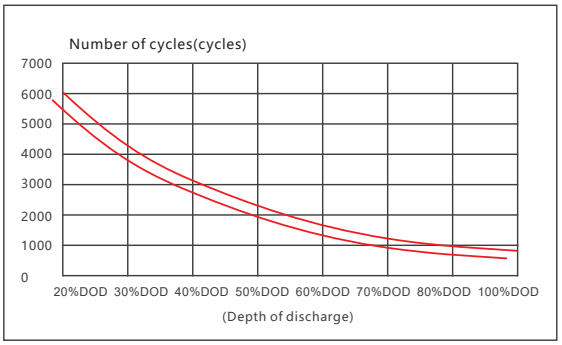
Curves of charging characteristics



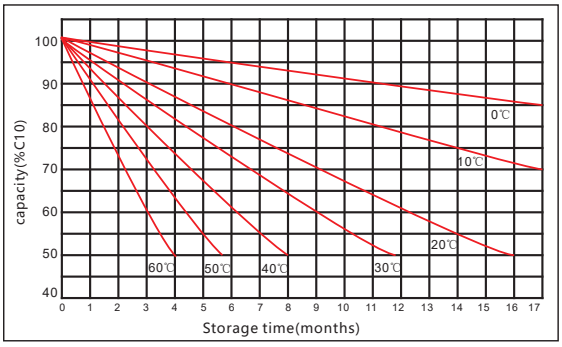
Discharge characteristics at different discharge rate(20℃)



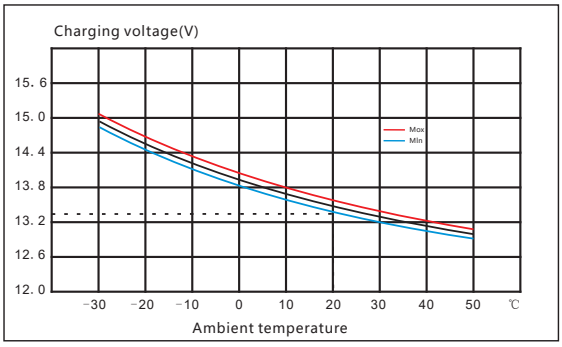
Curves of cycle life



Curves of self-discharge and storage time



Curves of float voltage and ambient temperature



Charging procedures

Application type	Charge Voltage(V)			Max charge current (A)
	Temp (℃)	Set point	Temperature compensation	
Cycle use	25	14.40	-5mV/℃/cell	0.5C
Float use	25	13.65	-3mV/℃/cell	

The ralationship between discharge current and voltage

Discharge rate	1hr	3hr	8hr	10hr
End voltage (V)	10.5	10.8	10.8	10.8
Discharge current (A)	0.55C	0.25C	0.12C	0.10C

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