

TECHNICAL DATA SHEET

DLC6-200EV



Applications



CYCLIC



STATIONARY



SOLAR



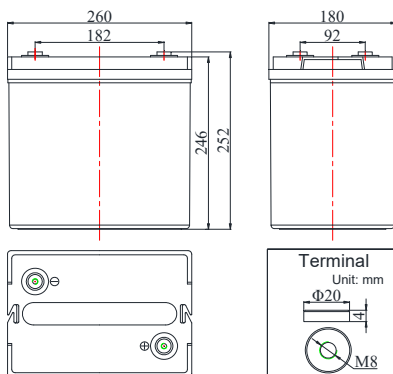
MARINE

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	6V
Nominal Capacity	220Ah
Design life	12 years
Terminal	M8 or A Terminals
Approx. Weight	Approx 29.50 kg
Container Material	ABS
Rated Capacity	220Ah 10Hour Rate (22.0A to 5.4V)
	165Ah 3Hour Rate (55.1A to 5.25V)
	131Ah 1Hour Rate (131A to 5.25V)
Internal resistance	Full charged at 25 °C: 4.5 Ohm
Max. Discharge Current	2000.0A(5S)
Operating Temperature	Discharge: -40 ~60 °C (-40~ 140 °F)
	Charge: -20 ~50 °C (-4~ 122 °F)
	Storage: -20 ~50 °C (-4~ 122 °F)
Charge current:	Max. 66 A ; Recom. 27~45A
Float Charge voltage(-3mV/°C) :	
Charge Method (25 °C)	6.85V-6.95V, recom. 6.85 V(Full floating system)
	Cycle charge: 7.35 - 7.5 V, recom. 7.35V(-3mV/ °C)
3% of capacity declined per month at 20 °C	



Unit: mm Dimension: 260(L)×180(W) ×252(H)×252(TH)



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

F.V/Time	5M	15M	30M	1H	2H	3H	5H	8H	10H
1.60V	703	378	230	134	77	57.1	37.5	24.6	22.9
1.65V	682	366	226	134	76.6	56.5	37.1	24.4	22.7
1.70V	654	358	222	133	76.1	55.7	36.8	24.2	22.4
1.75V	602	347	220	131	74.9	55.1	36.4	24	22.2
1.80V	539	323	210	127	73.5	54.7	35.4	23.8	22
1.85V	481	288	192	118	69.5	51.5	33.6	22.9	21.3

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

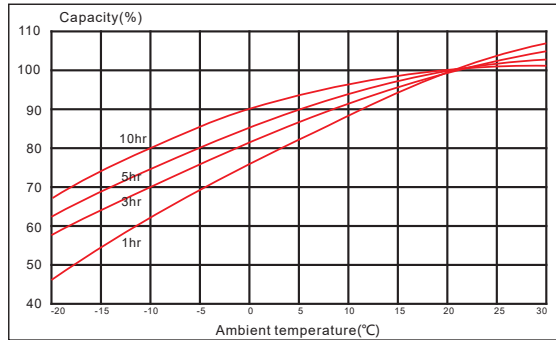
F.V/Time	5M	15M	30M	1H	2H	3H	5H	8H	10H
1.60V	1179	665	416	254	146	109	71.2	47.9	39.1
1.65V	1134	654	412	252	145	107	70.8	47.5	38.7
1.70V	1128	646	412	250	145	107	70.2	47.3	38.4
1.75V	1052	642	410	248	144	106	69.8	46.9	38
1.80V	966	607	400	246	144	106	69	46.5	37.6
1.85V	862	542	367	229	137	100	65.9	44.9	37

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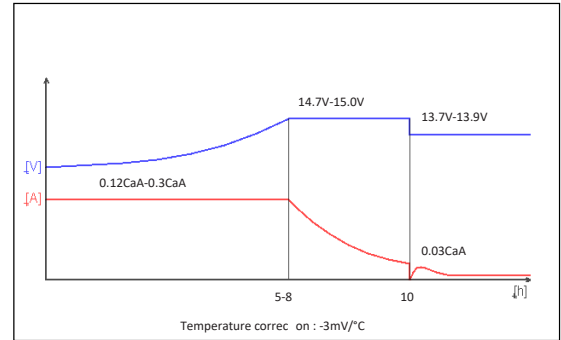
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Model Performance Diagrams

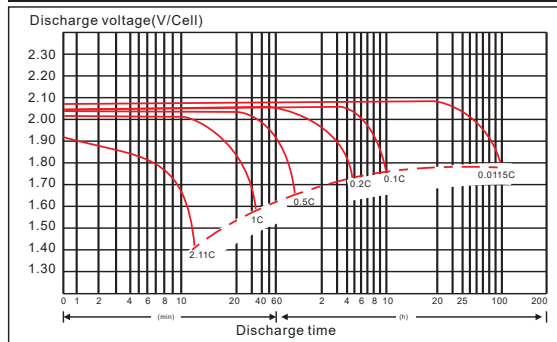
Curves of discharge capacity and ambient temperature



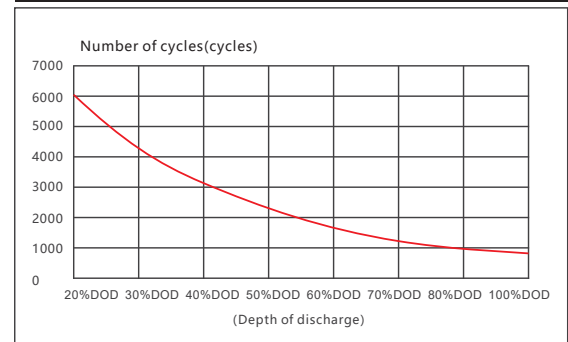
Curves of charging characteristics



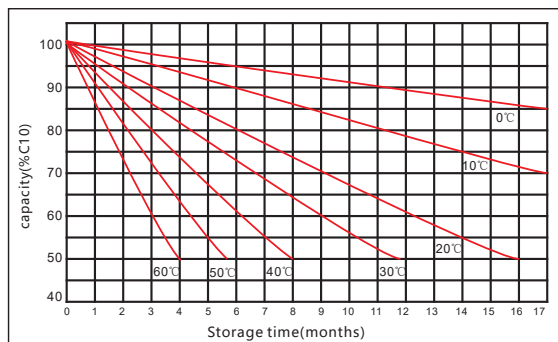
Discharge characteristics at different discharge rate(20°C)



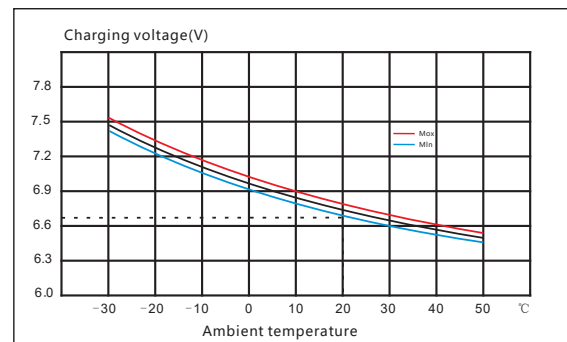
Curves of cycle life



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 (°C)	Set point	Temperature compensation	
Cycle use	25	14.70	-3mV/°C/cell	0.3C
Float use	25	13.70	-3mV/°C/cell	

The relationship 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

