TECHNICAL DATA SHEET

DLC6-225EV

Applications

CYCLIC | STATIONARY | SOLAR | MARINE

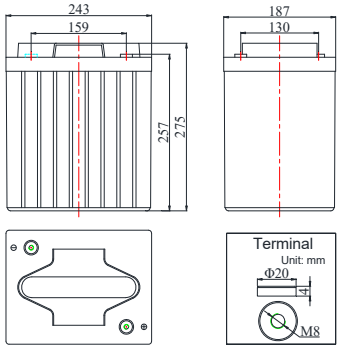
Application

- 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		225Ah
Design life		12 years
Terminal		M8
Approx. Weight		Approx 32.00 kg
Container Material		ABS
Rated Capacity	225Ah	10Hour Rate (22.5A to 5.4V)
	169Ah	3Hour Rate (56.3A to 5.25V)
	134Ah	1Hour Rate (134.0A to 5.25V)
Internal resistance		Full charged at 25°C: 4.5 Ohm
Max. Discharge Current		2000.0A(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)		Charge current: Max. 67.5A；Recom.27~45A Float Charge voltage(-3mV/℃）: 6.85V-6.95V,recom. 6.85V(Full floating system) Cycle charge: 7.35 - 7.5 V,recom. 7.35 V(-3mV/ °C)
		3% of capacity declined per month at 20°C

Unit: mm Dimension: 243(L)×187(W) ×275(H)×275(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	719	386	235	137	78.8	58.4	38.4	25.2	23.4
1.65V	697	375	231	137	78.4	57.8	38	25	23.2
1.70V	669	367	227	136	77.8	57	37.6	24.8	23
1.75V	615	355	225	134	76.6	56.3	37.2	24.6	22.7
1.80V	552	331	215	130	75.2	55.9	36.2	24.4	22.5
1.85V	492	295	196	121	71.4	52.7	34.4	23.4	21.8

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

F.V/Time	5M	15M	30M	1H	2H	3H	5H	8H	10H
1.60V	1205	68	425	260	149	111	72.8	49	40
1.65V	1159	668	421	258	149	110	72.4	48.6	39.6
1.70V	1153	660	421	256	148	109	71.8	48.4	39.2
1.75V	1076	656	419	254	147	108	71.4	48	38.8
1.80V	988	621	409	252	147	108	70.6	47.6	38.4
1.85V	882	555	375	234	140	103	67.4	46	37.8

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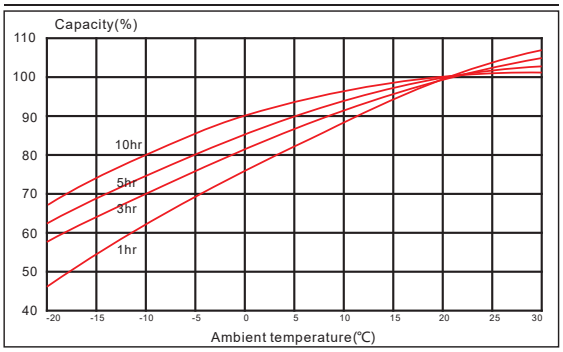
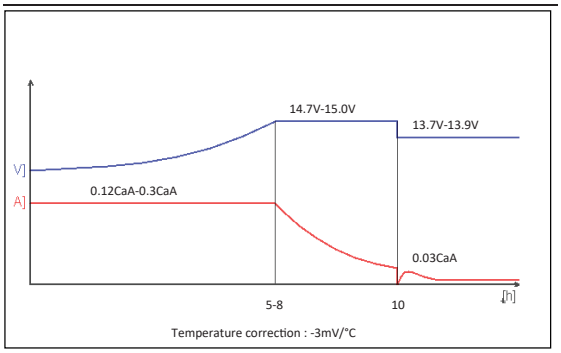
Model Performance Diagrams

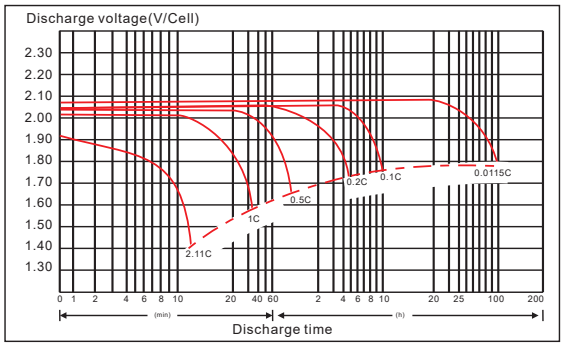
Curves of discharge capacity and ambient temperature



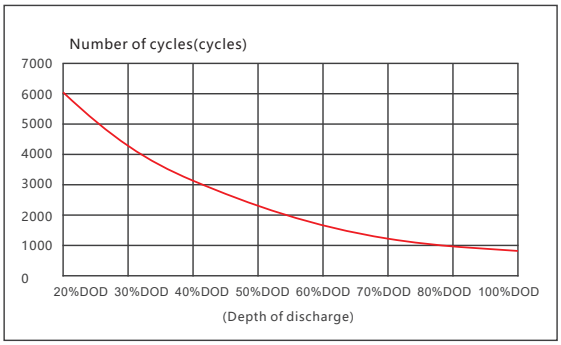
Curves of charging characteristics



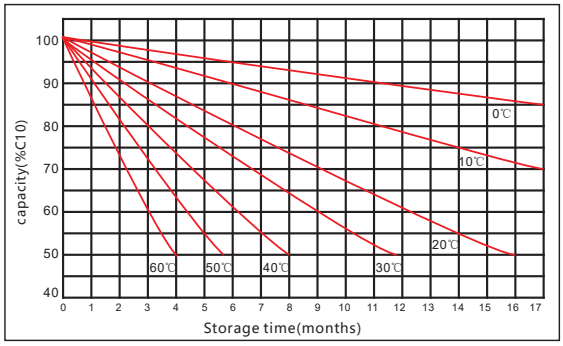
Discharge characteristics at different discharge rate(20℃)



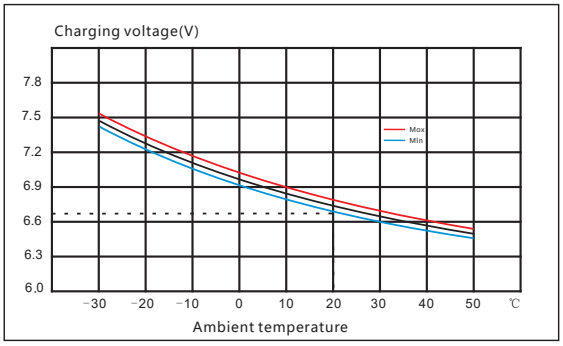
Curves of cycle life



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	14.70	-3mV/℃/cell	0.3C
Float use	25	13.70	-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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