TECHNICAL DATA SHEET

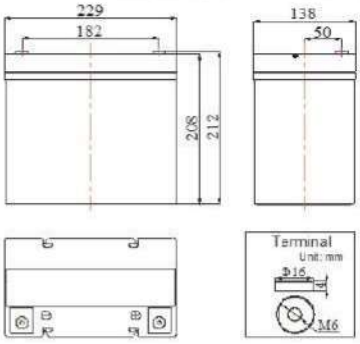
DLC12-55EV

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		62Ah
Design life		12 years
Terminal		M6 Terminals
Approx. Weight		Approx 17.00 kg
Container Material		ABS
Rated Capacity	55.5Ah	10Hour Rate (5.55A to 10.8V)
	48.5Ah	5Hour Rate (9.70A to 10.5V)
	35.4Ah	1Hour Rate (35.4A to 9.6V)
Internal resistance		Full charged at 25°C: 6.0 Ohm
Max. Discharge Current		800.0A(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.30.0A ; Recom.5.5~11A
	Float Charge voltage(-3mV/℃) :	13.7-13.9V,recom.13.7V(Full floating system)
	Cycle charge:	14.7-15.0V,recom. 14.7V(-5mV/ °C)
		3% of capacity declined per month at 20°C

Unit: mm Dimension: 229(L)× 138(W) ×208(H)×212(TH)

RoHS

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	144.9	109.9	88.5	53.8	40.3	35.4	23.3	16.3	10.2	6.8	6.04	3.23
1.67V	142.3	107.9	87	52.8	39.6	34.7	22.8	16	10.1	6.6	5.92	3.17
1.70V	139.7	105.9	85.3	51.8	38.8	34.1	22.4	15.7	9.9	6.5	5.8	3.11
1.75V	137	103.9	83.7	50.8	38.1	33.5	22	15.4	9.7	6.4	5.73	3.05
1.80V	131.8	99.9	80.5	48.8	36.6	32.2	21.1	14.8	9.3	6.2	5.55	3.02

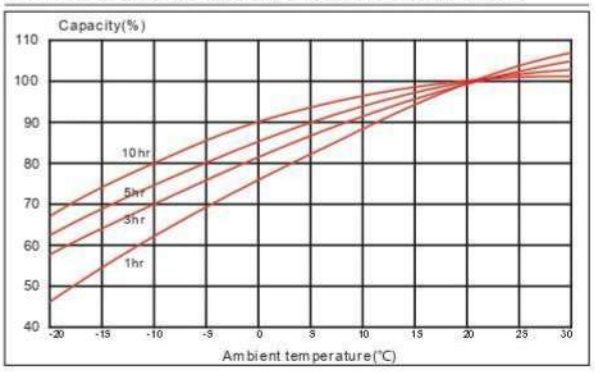
Constant Power Discharge (Watts) at 25 °C (77 °F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	279	211.6	170.4	103.5	77.6	68	44.7	31.4	19.8	13	11.65	6.31
1.67V	274	207.7	167.3	101.6	76.1	66.8	43.9	30.8	19.4	12.8	11.41	6.17
1.70V	268.8	203.9	164.2	99.7	74.7	65.5	43.1	30.2	19	12.6	11.22	6.13
1.75V	263.8	200.1	161.1	97.8	73.3	64.3	42.3	29.6	18.7	12.3	10.98	6.04
1.80V	253.6	192.4	154.9	94	70.5	61.8	40.7	28.5	18	11.8	10.55	5.98

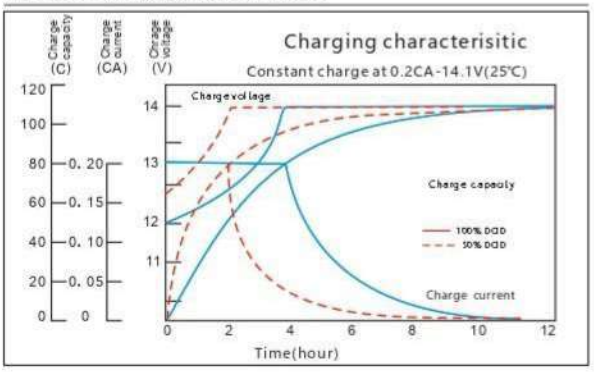
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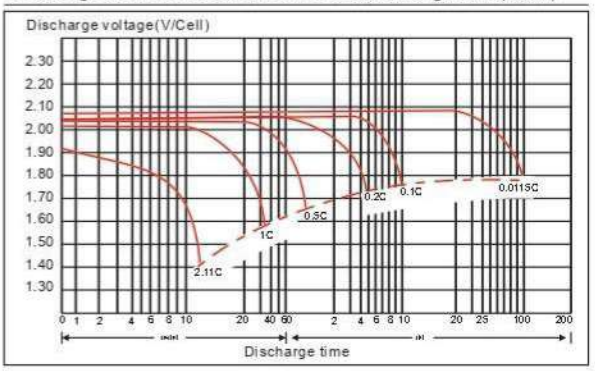
Curves of discharge capacity and ambient temperature



Curves of charging characteristics



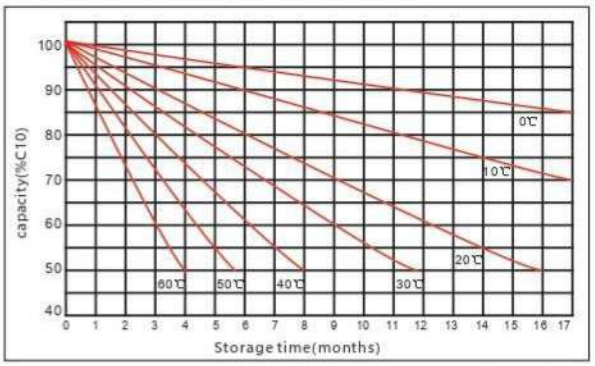
Discharge characteristics at different discharge rate(20℃)



Curves of cycle life



Curves of self-discharge and storage time



Curves of float voltage and ambient temperature

