

LiFePO4 Battery Cell 3,2 V 176 Ah



Gehäuse-Material	Aluminium-Hülle mit Kunststoff-Ummantelung
Nominale Spannung	3,2 Volt
Kapazität	176 Ah
Zellgröße	200 mm hoch, 173 mm breit, 54 mm dick
Gewicht je Zelle	3,82 kg
Ladestrom	Standard 0,2 C (35,2 A), maximal 1,5 C (264 A)
Stromentnahme	Maximal 2 C (354 A, 4.352 Watt)
Spannungs-Abschaltungen	Bei Vollladung 3,65 Volt Bei Entladung 2,5 Volt
Innerer Widerstand	$\geq 0,5 \text{ m}\Omega$ (bei 0,2 C, 2 Volt Abschaltung)
Arbeitstemperatur	Laden: -10 bis 55 ° Cs Entladen: -20 bis 70° C
Lagertemperatur	\leq Monat -10 bis 45° \leq 3 Monate 0-30° \leq 6 Monate 20° \pm 5°
Ladezyklen	6.000 bei 100% Entladetiefe (Laborwert)

Test 1

Model: 3.2V 120Ah, **DOD** (depth of discharge) = **100%**.

Charging and discharging **1C** (120 A)

charging 3.65 Vs - discharge cut off 2.5 V.

Environmental temperature 20 ± 1 °C

After Cycles	Discharge Voltage (V)	Charge Voltage (V)	Fully Discharge (Ah)	Fully Discharge (%)	Fully Charge (Ah)	Charging Efficiency (%)	Capacity Drop (Ah)
400	12.88	14.71	123.36	102.8	123.48	99.9	3.36
800	12.88	14.71	119.76	99.8	120.00	99.8	-0.24
1200	12.86	14.69	116.52	97.1	116.75	99.8	-3.48
1600	12.85	14.68	114.96	95.8	115.31	99.7	-5.04
2000	12.86	14.66	111.84	93.2	112.18	99.7	-8.16
2400	12.84	14.67	109.56	91.3	109.78	99.8	-10.44
2800	12.84	14.66	105.72	88.1	105.83	99.9	-14.28
3200	12.82	14.69	102.48	85.4	102.69	99.8	-17.52
3600	12.82	14.66	99.96	83.3	100.26	99.7	-20.04
4000	12.82	14.65	97.80	81.5	98.19	99.6	-22.20

Test 2

Model: 3.2V 120 Ah, **DOD** = **100%**.

Charging and discharging **1C**

charging 3.65 Vs - discharge cut off 2.5 V.

Environmental temperature 20 ± 1 °C

After Cycles	Discharge Voltage (V)	Charge Voltage (V)	Fully Discharge (Ah)	Fully Discharge (%)	Fully Charge (Ah)	Charging Efficiency (%)	Capacity Drop (Ah)
400	12.88	14.85	121.91	101.59	122.15	99.8	1.91
800	12.88	14.84	119.90	99.92	120.26	99.7	-0.10
1200	12.86	14.85	116.58	97.15	116.81	99.8	-3.42
1600	12.85	14.82	115.50	96.25	115.85	99.7	-4.50
2000	12.86	14.81	113.51	94.59	113.85	99.7	-6.49
2400	12.84	14.81	110.10	91.75	110.54	99.6	-9.90
2800	12.84	14.79	106.79	88.99	106.89	99.9	-13.21
3200	12.82	14.79	102.76	85.63	103.27	99.5	-17.24
3600	12.82	14.74	99.07	82.56	99.37	99.7	-20.93
4000	12.82	14.74	97.18	80.98	97.57	99.6	-22.82
4400	12.81	14.72	94.31	78.59	94.50	99.8	-25.69
4800	12.81	14.71	91.79	76.49	92.06	99.7	-28.21
5200	12.8	14.69	89.46	74.55	89.73	99.7	-30.54
5600	12.8	14.68	87.77	73.14	88.12	99.6	-32.23
6000	12.8	14.68	85.45	71.21	85.71	99.7	-34.55