

DC 120L Gel

Gel Deep Cycle Battery | 12 V | 120 Ah | 100 h



Electrical Specifications

Nominal Voltage	12 V (6 Cells)
Capacity C100	120 Ah
Capacity C20	107 Ah
Capacity C10	100 Ah
Capacity C5	87 Ah
Capacity C3	77 Ah
Internal Resistance	Ca. 3,78 mΩ (at 25 °)
Max. Charge Current	30 A
Max. Discharge Current	1000 A (5 s)
Short-Circuit Current	1950 A
Temperature Effect on Capacity (10 h)	40 °C: 102 % 25 °C: 100 % 0 °C: 85 % -15 °C: 65 %
Number of Cycles	1750 (30 % DoD) 750 (50 % DoD) 450 (80 % DoD) 300 (100 % DoD)

Charging (at 25 °C)

Float Charging Voltage	13,5 to 13,8 VDC (-3 mV/Cell/°C)
Equalization Charging Voltage	14,1 to 14,4 VDC (-4 mV/Cell/°C)
Cycle Use Voltage	14,4 to 15,0 VDC (-5 mV/Cell/°C)

Mechanical Specifications

Dimensions (L×B×H)	330 × 172 × 218/225 mm
Weight	28,2 kg
Terminal Type	T4
Case Material	ABS (UL94-HB / UL94-V0)
Separator	Macromolecule Polymer
Electrolyte	Sulphuric Acid Thixotropic Gel
Safety Valve	EPDR
Terminal	Copper
Terminal Torque	10 to 12 Nm

Temperature Ranges

Operation	25 °C
Discharging	-15 °C to 50 °C
Charging	-15 °C to 40 °C
Storage	-15 °C to 40 °C

Certificates

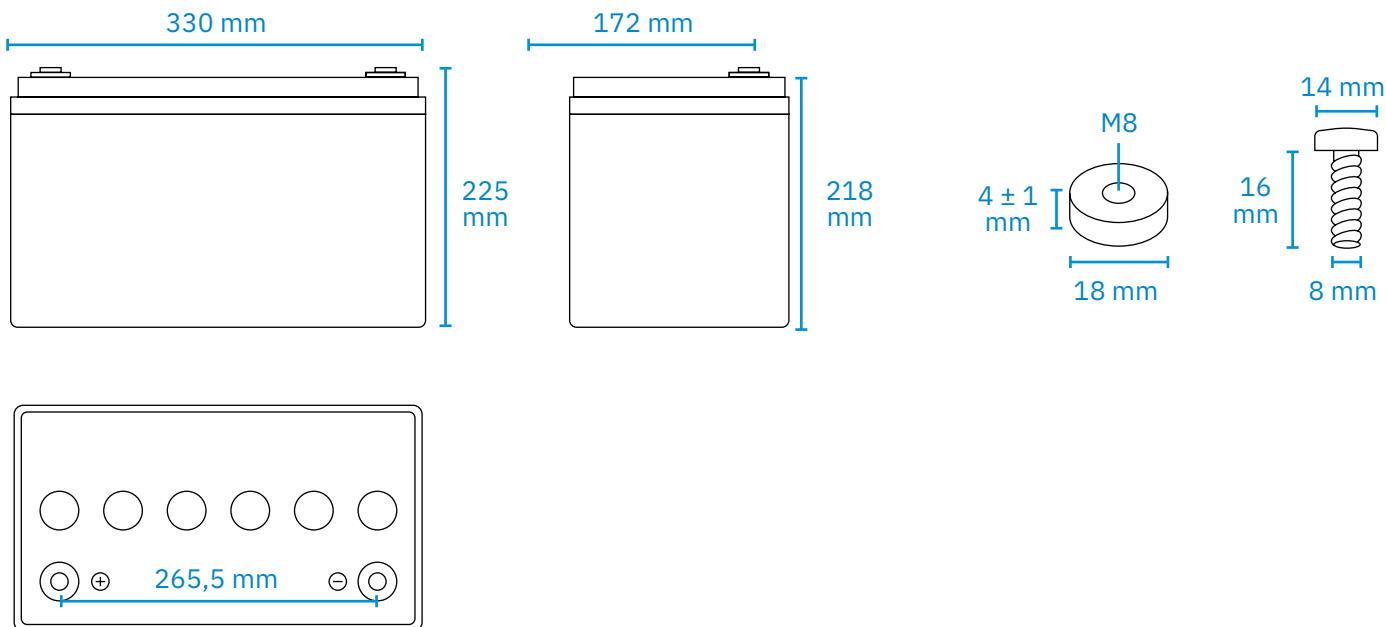
- IEC
- BS
- JIS
- Eurobat standard
- CE

Functions & Features

- Leak-proof
- Maintenance-free
- Long service life, low self-discharge

DC 120L Gel

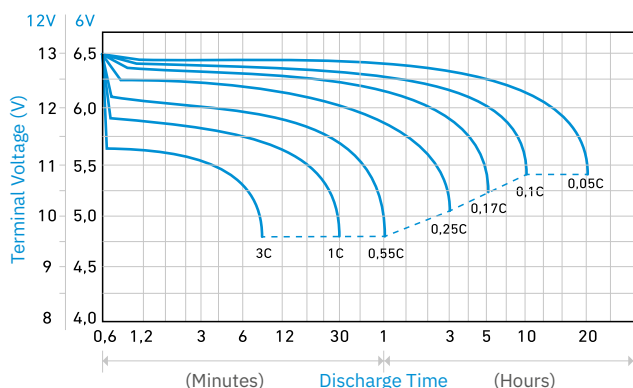
Dimensions



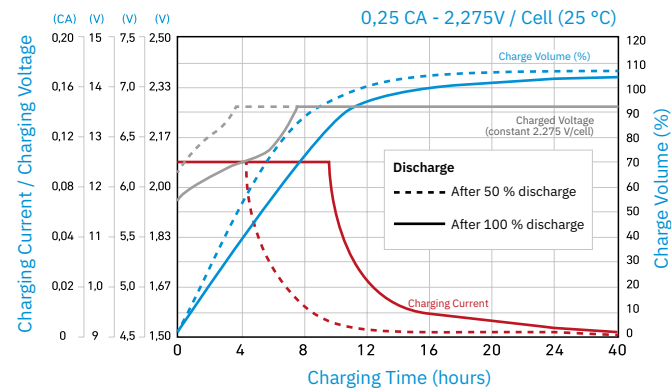
Constant Current (A) and Constant Power (W) Discharge Table (25 °C)

F.V/Zeit		5 min	10 min	15 min	20 min	30 min	1 h	2 h	3 h	5 h	8 h	10 h	20 h
1,85 V/Cell	A	216	166	134	113	88	53.4	33.39	24.17	16.65	11.81	9.89	5.25
	W	403	316	259	219	171	105.6	66.59	48.39	33.46	23.77	19.92	10.59
1,80 V/Cell	A	243	180	145	119	91	54.6	33.98	24.63	16.98	12.00	10.00	5.30
	W	447	338	275	229	177	107.3	67.47	49.16	34.04	24.11	20.11	10.68
1,75 V/Cell	A	267	193	152	126	95	55.6	34.38	25.03	17.25	12.17	10.07	5.35
	W	485	357	289	241	182	109.0	68.16	49.85	34.54	24.41	20.22	10.77
1,70 V/Cell	A	290	204	160	131	98	56.6	34.87	25.38	17.50	12.31	10.13	5.39
	W	518	376	300	248	187	110.4	68.95	50.45	34.95	24.67	20.31	10.84
1,67 V/Cell	A	303	210	164	134	99	57.1	35.07	25.53	17.60	12.37	10.16	5.41
	W	536	383	306	253	189	111.2	69.25	50.70	35.13	24.77	20.36	10.88
1,60 V/Cell	A	321	219	170	139	101	57.8	35.46	25.81	17.74	12.44	10.20	5.43
	W	561	396	313	260	192	112.3	69.84	51.17	35.38	24.89	20.43	10.91

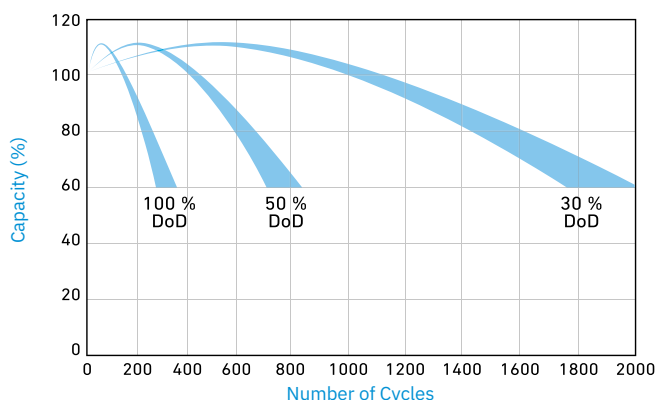
Discharge Characteristic Curve (25 °C)



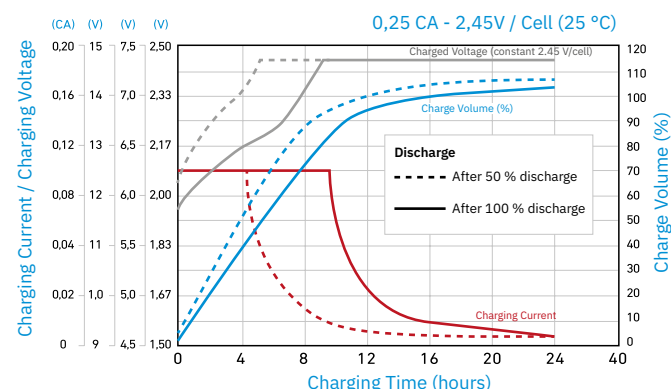
Charge Characteristic (Float Charge)



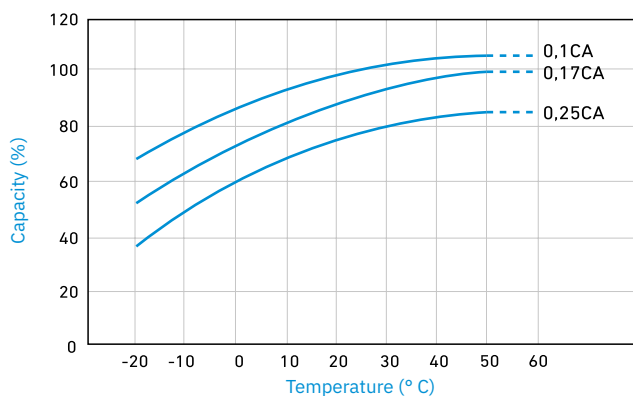
Cycle Service Life vs. Depth of Discharge



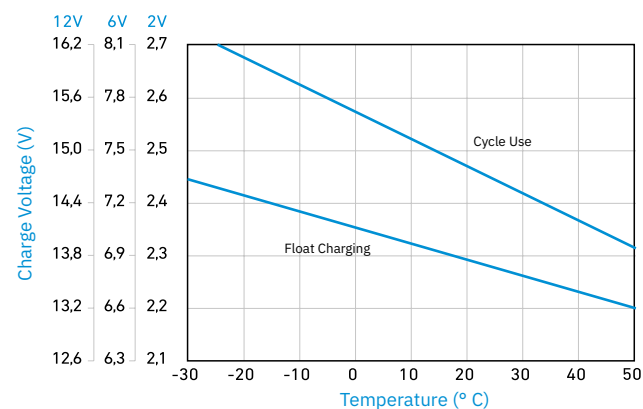
Cyclic Charging Characteristic (25 °C)



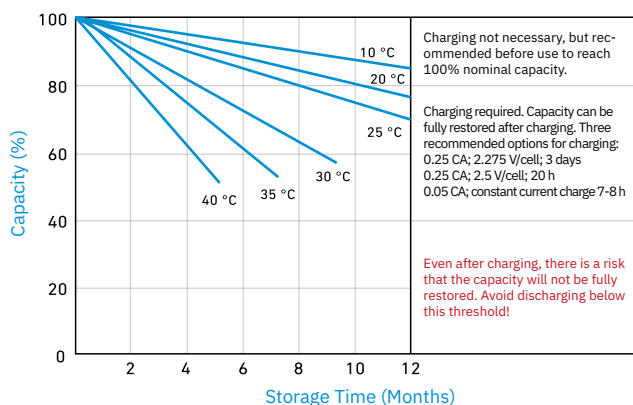
Temperature vs. Capacity



Charging Voltage vs. Temperature



Self Discharge Characteristics



Temperature vs. Float Life

