

DC 185 Gel

Gel Deep Cycle Battery | 12 V | 185 Ah | 100 h



Electrical Specifications

Nominal Voltage	12 V (6 Cells)
Capacity C100	185 Ah
Capacity C20	160 Ah
Capacity C10	150 Ah
Capacity C5	125 Ah
Capacity C3	110 Ah
Internal Resistance	Ca. 3,57 mΩ (at 25 °)
Max. Charge Current	45 A
Max. Discharge Current	1200 A (5 s)
Short-Circuit Current	2350 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)	481 × 170 × 241/245 mm
Weight	40,8 kg
Terminal Type	T5
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

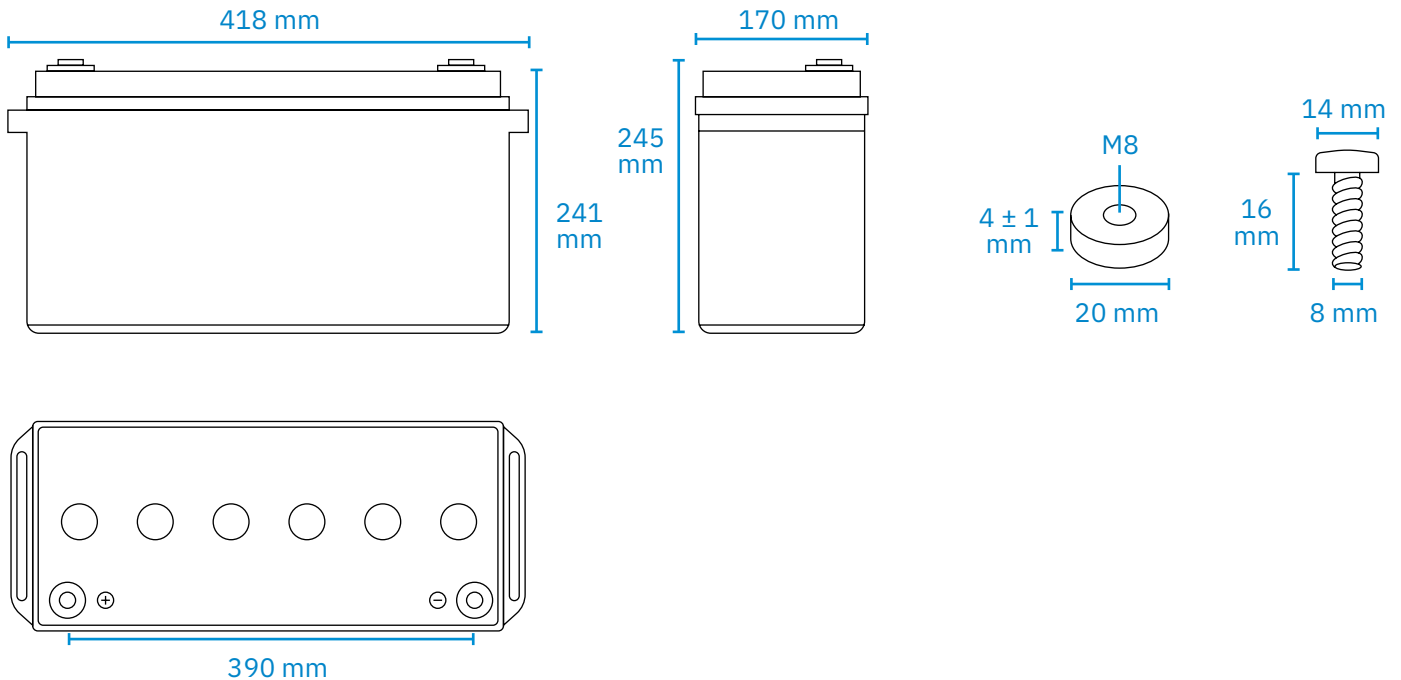
- IEC
- BS
- JIS
- Eurobat standard
- CE

Functions & Features

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

DC 185 Gel

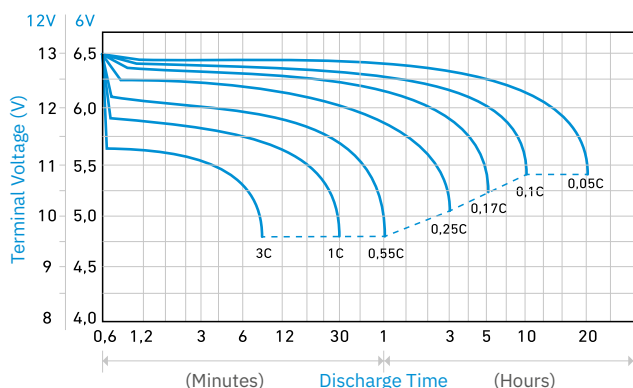
Dimensions



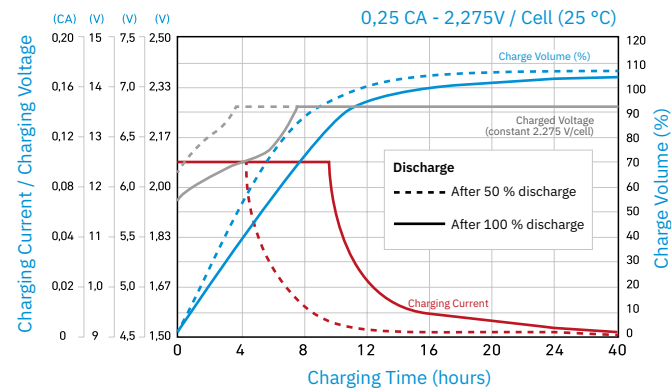
Constant Current (A) and Constant Power (W) Discharge Table (25 °C)

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	265	226	189	148	134	80.1	48.27	36.04	24.43	17.42	14.51	7.34
	W	490	423	359	313	259	155.8	95.05	71.28	48.60	34.78	29.00	15.48
1,80 V/Cell	A	294	248	207	161	140	82.9	49.64	36.93	24.92	17.71	14.81	7.89
	W	536	459	389	337	269	160.7	97.42	72.86	49.46	35.29	29.55	15.78
1,75 V/Cell	A	323	269	225	173	146	85.7	50.83	37.62	25.33	17.96	15.00	7.99
	W	576	489	414	355	278	165.6	99.49	74.05	50.18	35.72	29.91	15.96
1,70 V/Cell	A	350	289	240	182	151	88.0	52.01	38.31	25.70	18.17	15.20	8.10
	W	612	517	438	372	285	169.5	101.46	75.24	50.82	36.10	30.26	16.16
1,67 V/Cell	A	363	298	248	187	154	89.2	52.50	38.61	25.84	18.25	15.30	8.15
	W	630	530	449	379	290	171.5	102.34	75.83	51.06	36.23	30.45	16.26
1,60 V/Cell	A	386	315	261	195	158	91.1	53.29	39.11	26.10	18.40	15.40	8.21
	W	659	552	466	392	294	174.4	103.62	76.63	51.50	36.49	30.63	16.37

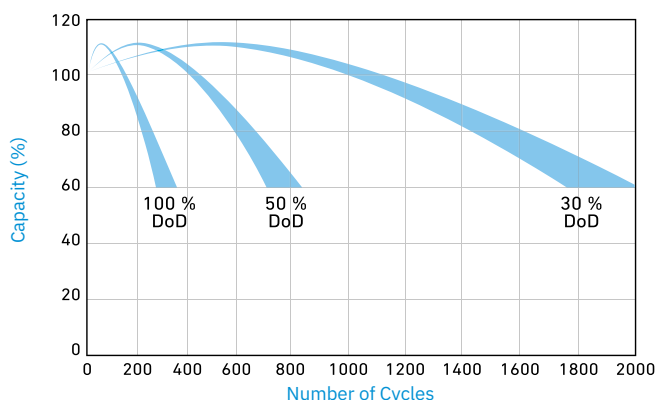
Discharge Characteristic Curve (25 °C)



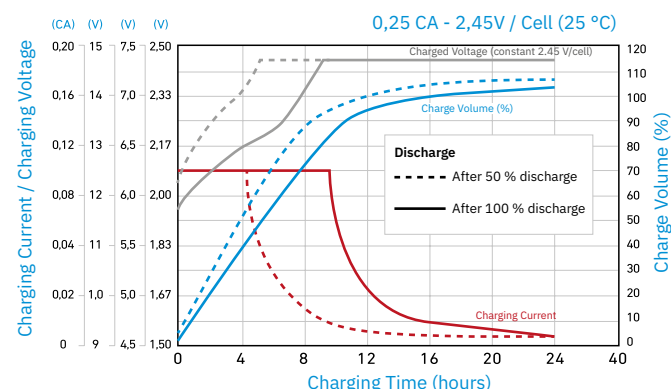
Charge Characteristic (Float Charge)



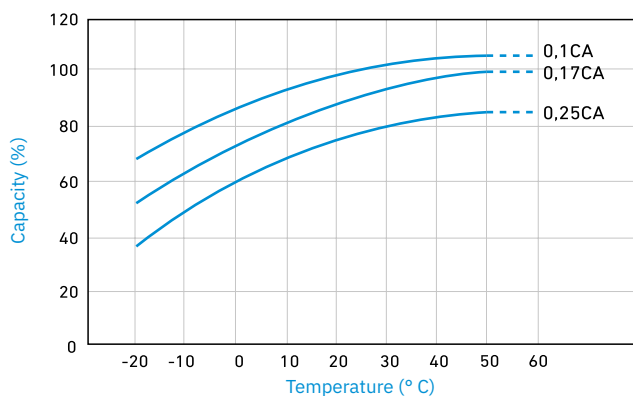
Cycle Service Life vs. Depth of Discharge



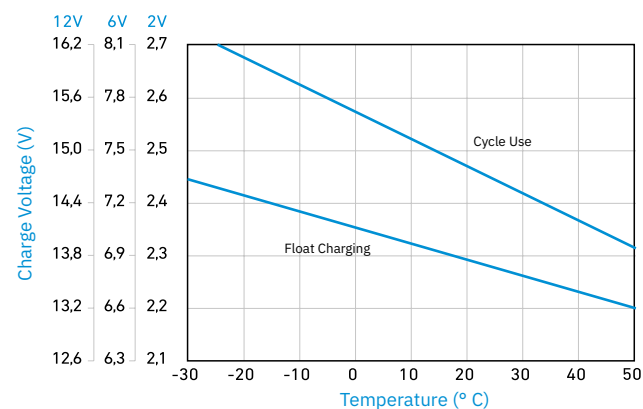
Cyclic Charging Characteristic (25 °C)



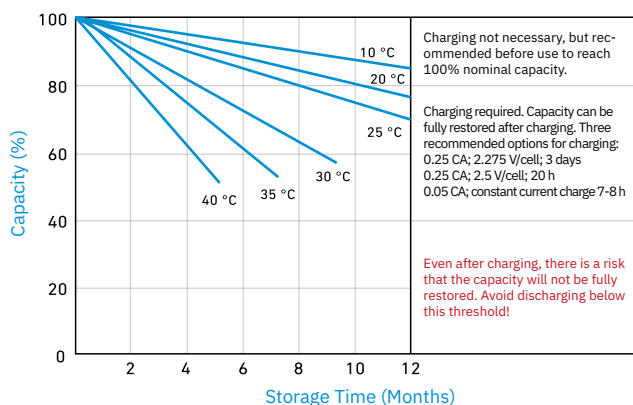
Temperature vs. Capacity



Charging Voltage vs. Temperature



Self Discharge Characteristics



Temperature vs. Float Life

