

DC 300 Gel

Gel Deep Cycle Battery | 12 V | 300 Ah | 100 h



Electrical Specifications

Nominal Voltage	12 V (6 Cells)
Capacity C100	300 Ah
Capacity C20	270 Ah
Capacity C10	250 Ah
Capacity C5	222 Ah
Capacity C3	197 Ah
Internal Resistance	Ca. 2,48 mΩ (at 25 °)
Max. Charge Current	75 A
Max. Discharge Current	2000 A (5 s)
Short-Circuit Current	3000 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)	522 × 268 × 220/226 mm
Weight	64,2 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

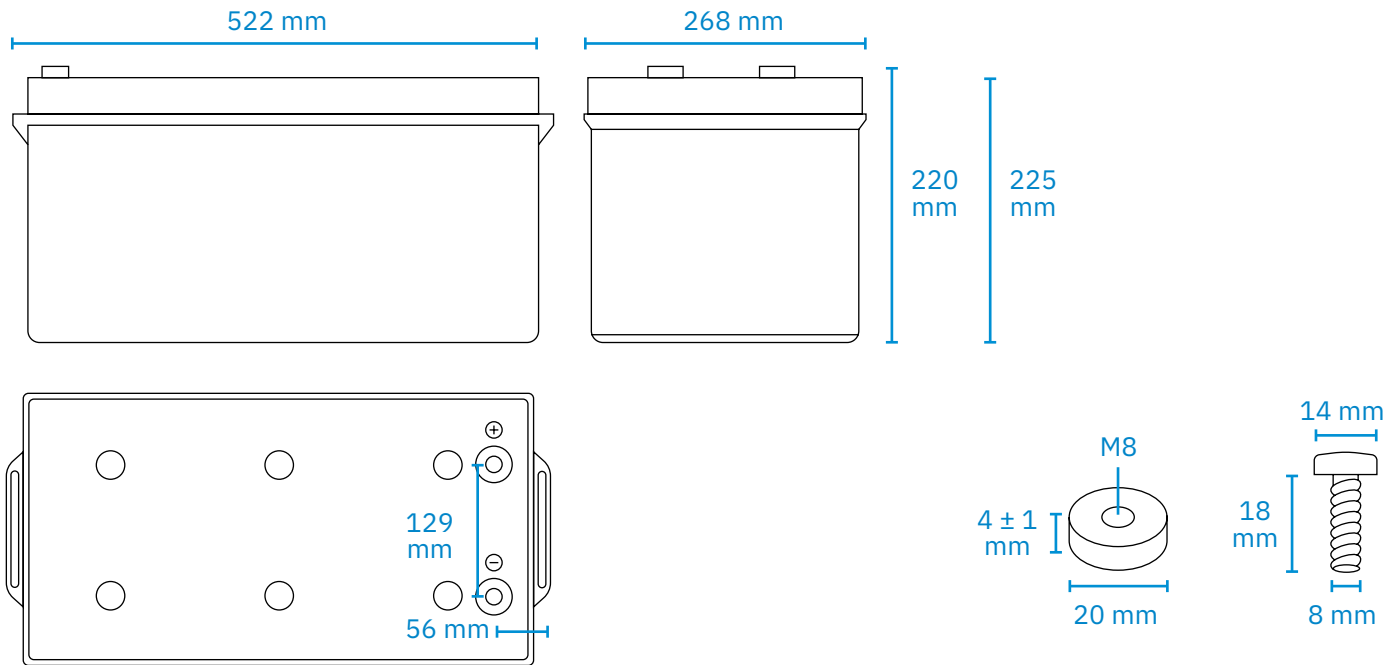
- IEC
- BS
- JIS
- Eurobat standard
- CE

Functions & Features

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

DC 245 Gel

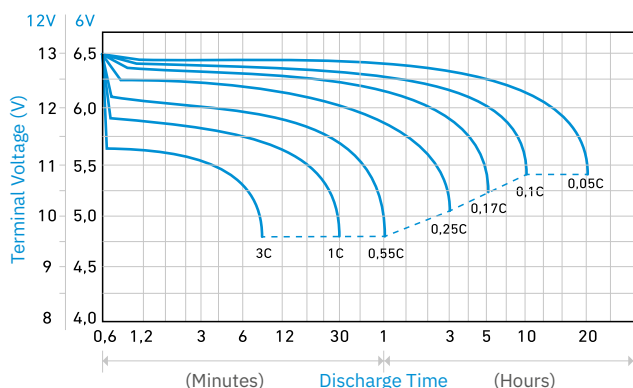
Dimensions



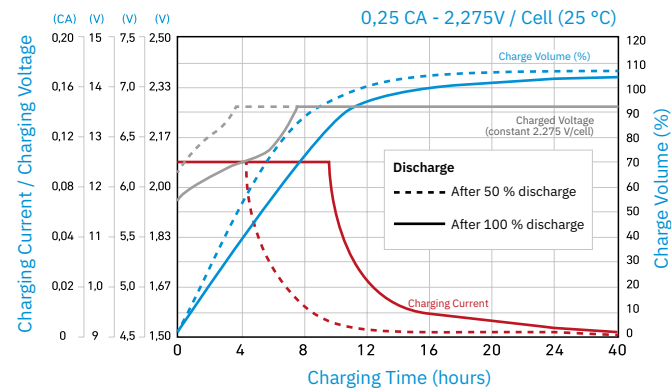
Constant Current (A) and Constant Power (W) Discharge Table (25 °C)

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	371	324	283	251	209	134	82.1	63.3	42.6	29.4	24.6	12.8
	W	696	611	536	477	401	263	159.7	125.0	84.5	58.4	49.0	25.9
1,80 V/Cell	A	412	358	312	273	222	139	84.7	64.2	43.5	30.0	25.0	13.0
	W	760	670	587	510	424	270	164.0	126.6	85.8	59.3	49.6	26.2
1,75 V/Cell	A	450	390	338	293	235	145	87.2	65.0	44.4	30.5	25.4	13.3
	W	825	728	629	545	445	278	167.6	127.9	86.8	60.0	50.2	26.6
1,70 V/Cell	A	487	417	362	311	246	149	88.9	65.7	44.9	30.8	25.6	13.3
	W	881	773	663	573	460	283	170.9	129.3	87.7	60.5	50.7	26.9
1,67 V/Cell	A	515	436	379	323	251	151	90.5	66.4	45.3	31.0	25.8	13.4
	W	914	801	686	594	470	286	172.9	130.2	88.3	60.8	51.1	27.0
1,60 V/Cell	A	557	469	401	344	263	155	93.1	67.9	45.9	31.4	26.0	13.5
	W	974	834	720	627	490	291	177.2	132.2	89.4	61.4	51.5	27.2

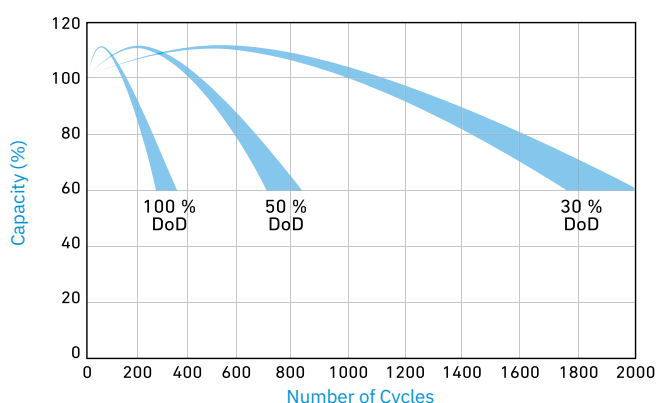
Discharge Characteristic Curve (25 °C)



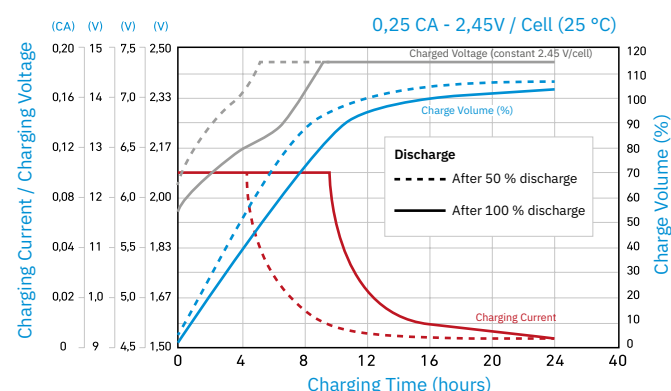
Charge Characteristic (Float Charge)



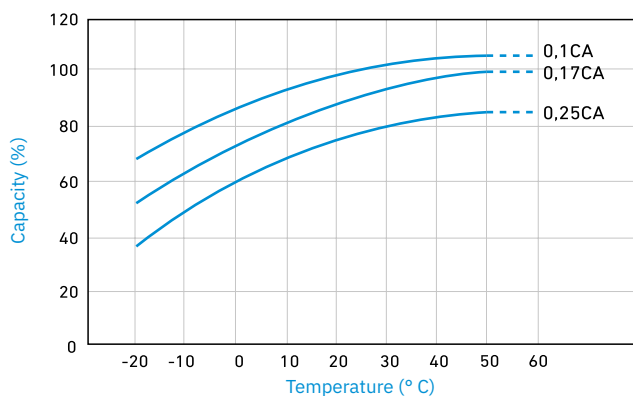
Cycle Service Life vs. Depth of Discharge



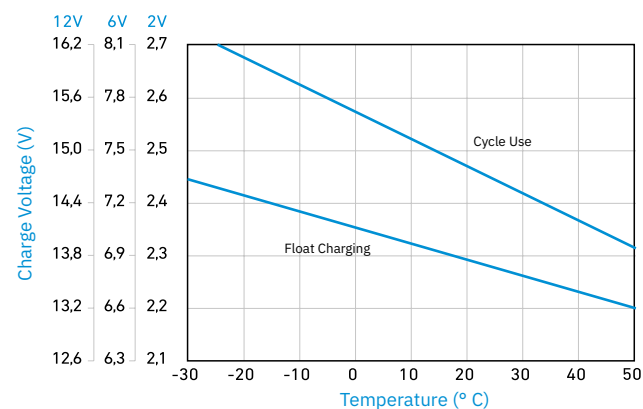
Cyclic Charging Characteristic (25 °C)



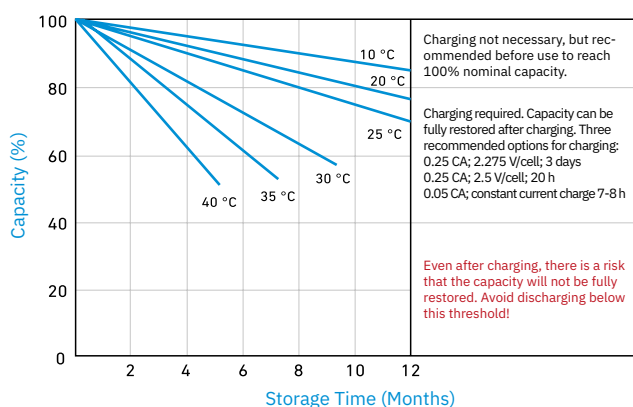
Temperature vs. Capacity



Charging Voltage vs. Temperature



Self Discharge Characteristics



Temperature vs. Float Life

