

EUROPOWER cells are made in **AGM technology**. Owing their excellent power and current capability these batteries are designed for both large and important central battery UPS systems as well as for applications in telecommunications and renewable energy engineering (the battery system **capacity even up to 12000 Ah**). They have a very high repeatability of parameters and long designed life. EXL-N cells can withstand **1200 discharge/charge cycles at 80% DOD**.



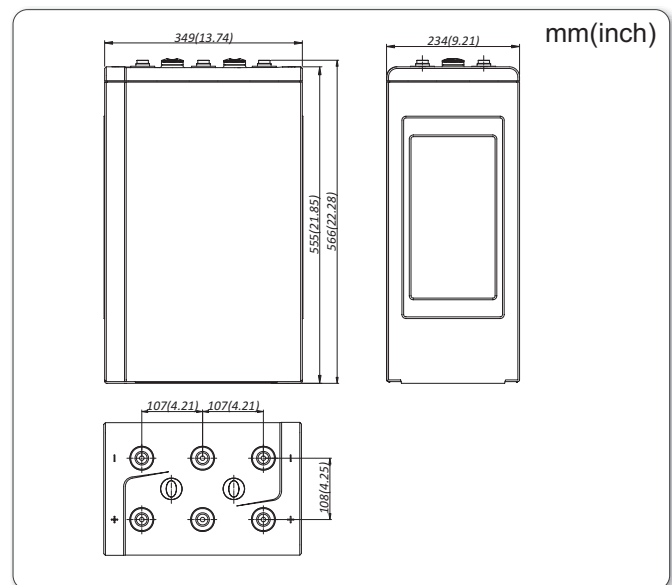
TECHNICAL DATA

Nominal voltage	2 V	
Nominal capacity	2000 Ah / C ₁₀	
Cell per unit	1	
Technology	AGM	
Design life	over 12 years @ 20°C* 15 years @ 25°C	
Dimensions	height	566,0 mm
	length	349,0 mm
	width	234,0 mm
Weight	~121,0 kg	
Capacity @ 25°C	10h 206A @1,80V/cell.	2060,0 Ah
	3h 523A @1,80V/cell.	1569,0 Ah
	1h 1105A @1,75V/cell.	1105,0 Ah
	30 min 1523A @1,75V/cell.	761,5 Ah
Ambient nominal temperature range	charge	0°C ~ 40°C
	discharge	-40°C ~ 55°C
	storage	-20°C ~ 40°C
Internal resistance	@ fully charge battery	≤0,11 mΩ
Charging voltage @ 20°C	standby use	2,25 V (-3 mV/°C)
	cycle use	2,35 V (-4 mV/°C)
Charging current	recommended	200 A
	maximum	500 A
Capacity retention during storage @ 20°C (self discharge)	after 1 month	98 %
	after 6 months	86 %
	after 12 months	73 %
Container material	standard	ABS UL 94-HB
	optional	ABS UL 94-V0**
Terminal	insert terminal	I3
Terminal hardware initial torque	10,0 Nm	

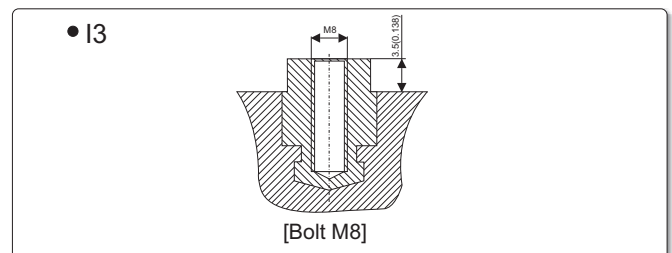
- high power Uninterruptible Power Supplies (UPS)
- substations
- emergency lighting systems

- telecommunication power plants
- renewable power sources
- GSM base stations

DIMENSIONS



TERMINALS



*) - According to Eurobat (Long Life group)

**) - Flame-retardant

NO TRANSPORT RESTRICTED

Not restricted for air, surface and water transport. Classified as non-hazardous material (IATA/ICAO Special Provision A67, DOT-CFR Title 49 parts 171-189, IMDG amendment 27)

DISCHARGE CHARACTERISTICS

• Constant current (Current [A], 25°C / 77°F)

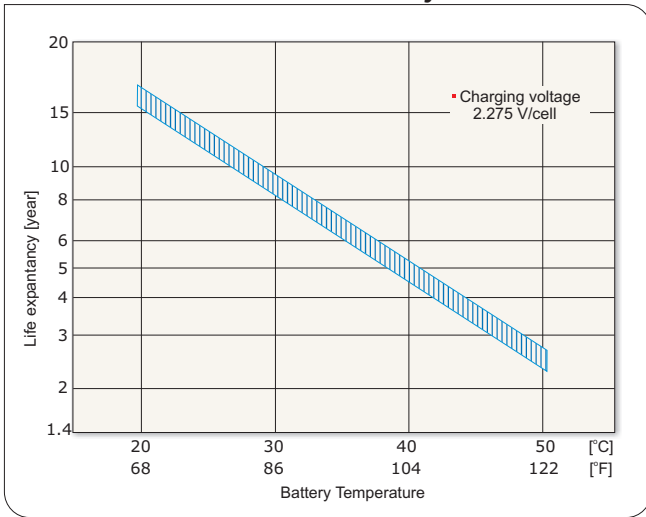
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	24h
1,90	1599	1279	1041	888	766	428	302	265	214	180	86,0
1,85	1953	1620	1253	1063	927	479	334	292	236	198	92,2
1,83	2106	1754	1331	1142	990	507	350	305	244	205	94,9
1,80	2274	1905	1426	1207	1049	523	356	309	246	206	94,9
1,75	2407	2043	1523	1279	1105	535	364	315	250	209	96,9
1,70	2552	2170	1651	1356	1170	547	371	320	254	210	97,8

• Constant power (Power [W/cell], 25°C / 77°F)

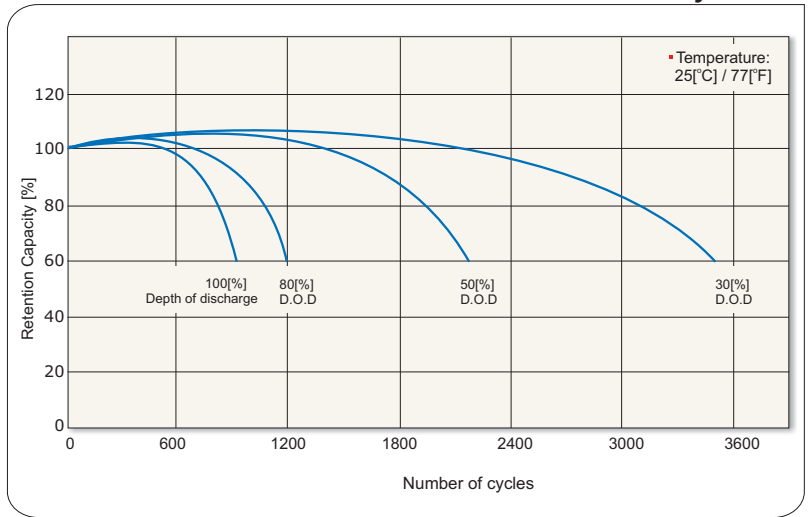
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	24h
1,90	3119	2495	1975	1640	1467	921	647	570	467	399	179
1,85	3710	3079	2416	2000	1731	1010	693	604	499	424	191
1,83	3960	3297	2614	2182	1889	1045	853	622	515	440	198
1,80	4208	3524	2797	2341	2020	1069	733	640	529	447	201
1,75	4406	3738	2992	2512	2194	1103	752	653	541	455	205
1,70	4594	3907	3183	2679	2327	1125	766	673	552	459	207

F.V. - Final voltage

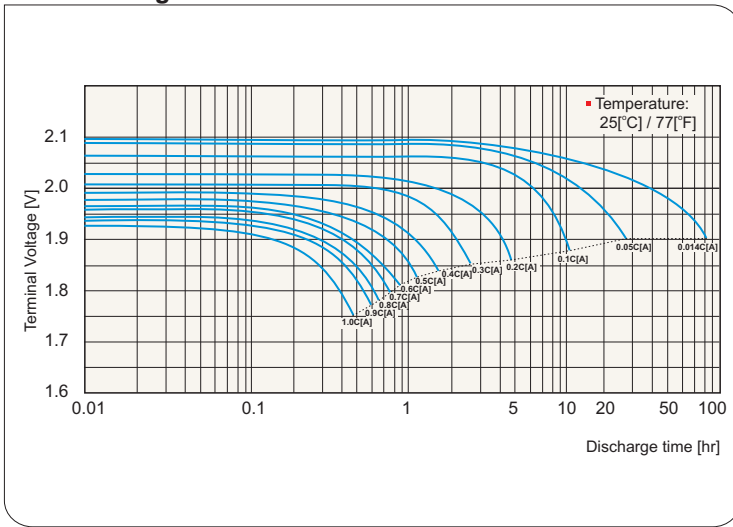
Cell life characteristics of standby use



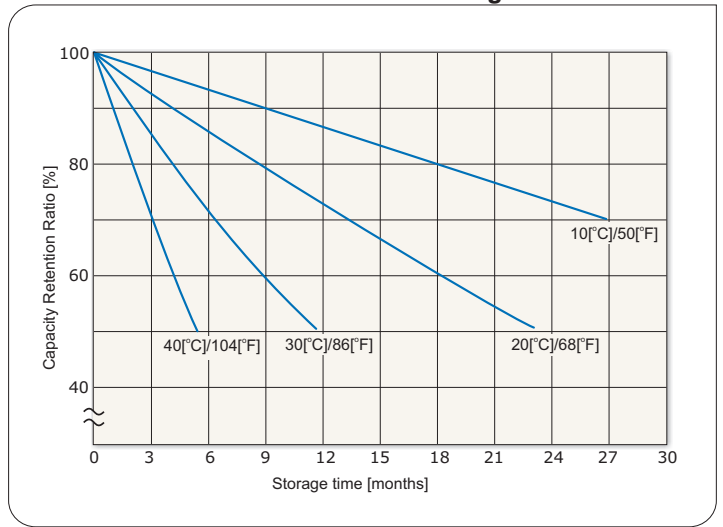
Cell life characteristics of cycle use



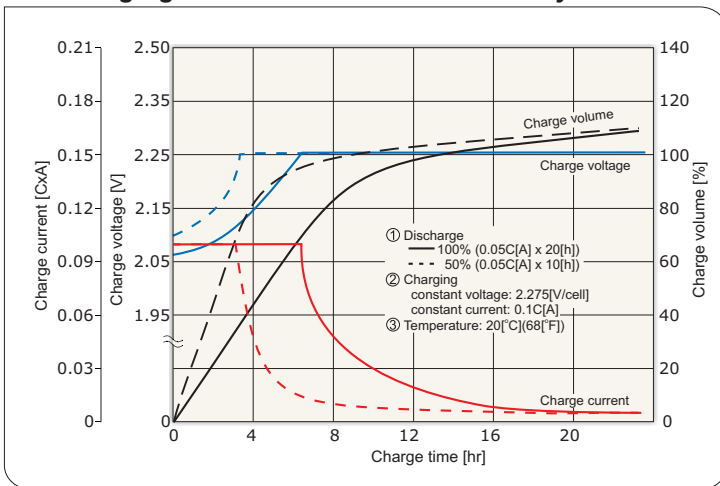
Cell discharge characteristics



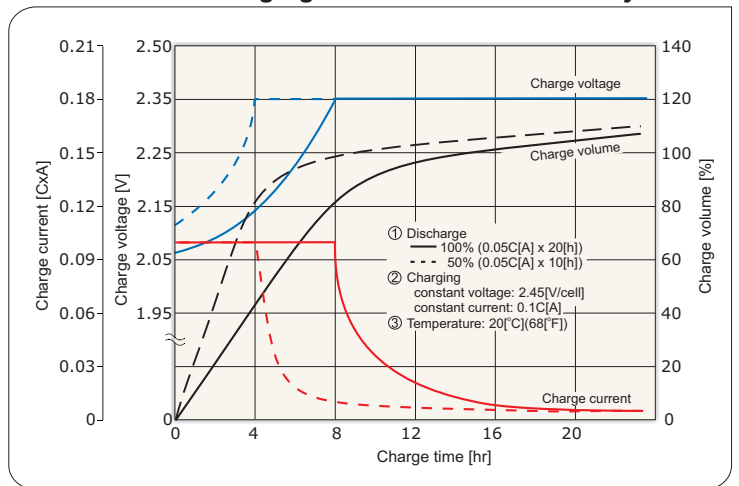
Cell self discharge characteristics



Cell charging characteristics for the standby use



Cell charging characteristics for the cycle use



Cell discharge current and final discharge voltage

Discharge current [A]	0.2C > I	0.2C ≤ I < 0.5C	0.5C ≤ I < 1.0C	1.0C ≤ I
Final discharge voltage [V/cell]	1.85	1.83	1.75	1.70



*) C - Capacity