

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		1500 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	266,0 mm	
	width	229,0 mm	
Weight		~92,0 kg	
Capacity @ 25°C	10h	154A @1,80V/cell.	1540,0 Ah
	3h	392A @1,80V/cell.	1176,0 Ah
	1h	829A @1,75V/cell.	829,0 Ah
	30 min	1142A @1,75V/cell.	571,0 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	≤0,14 mΩ	
Charging voltage @ 20°C	standby use	2,25 V (-3 mV/°C)	
	cycle use	2,35 V (-4 mV/°C)	
Charging current	recommended	150 A	
	maximum	375 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	

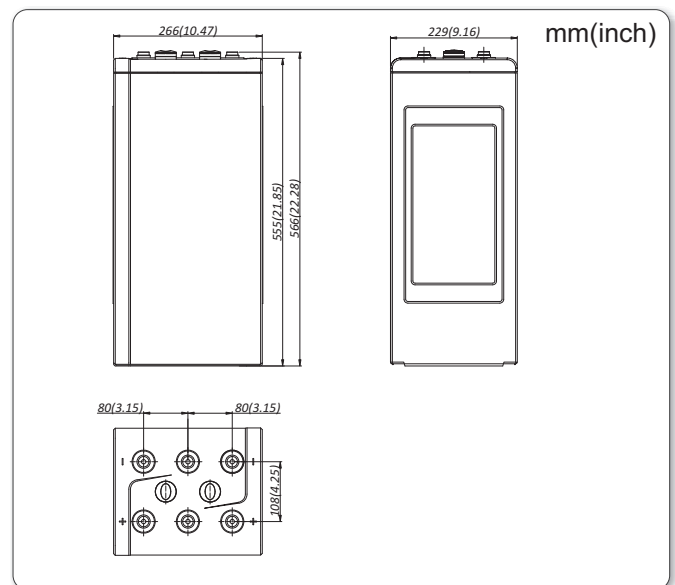
*)- According to Eurobat (Long Life group)

**)- Flame-retardant

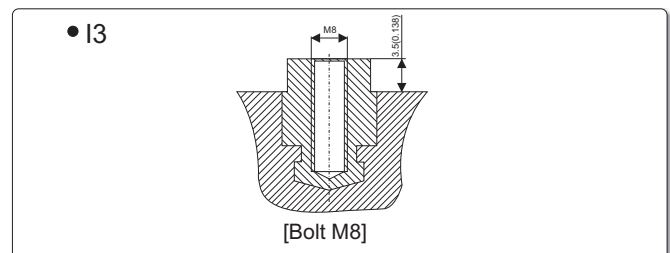
APPLICATIONS

- high power Uninterruptible Power Supplies (UPS)
- substations
- emergency lighting systems
- telecommunication power plants
- renewable power sources
- GSM base stations

DIMENSIONS



TERMINALS



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)

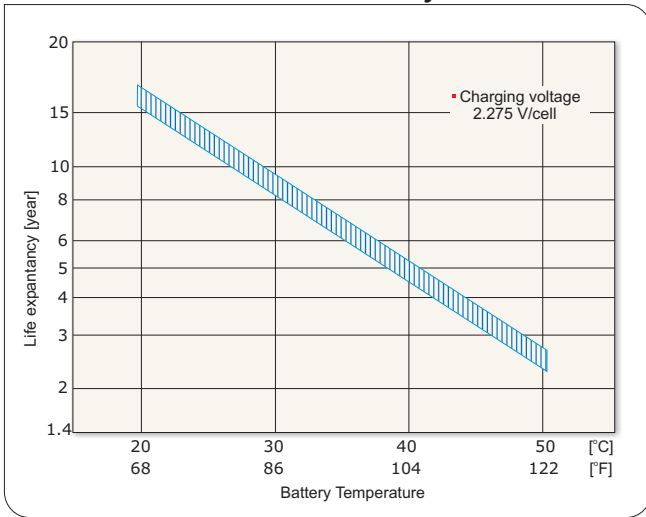
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	24h
1,90	1199	960,0	781	666	575	321	227	199	160	135	64,5
1,85	1464	1215	940	797	695	360	250	219	177	148	69,1
1,83	1580	1315	998	856	743	380	263	229	183	154	71,2
1,80	1706	1429	1069	905	787	392	267	232	184	154	71,2
1,75	1806	1532	1142	959	829	401	273	236	188	157	72,7
1,70	1914	1628	1238	1017	878	410	278	240	190	158	73,4

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

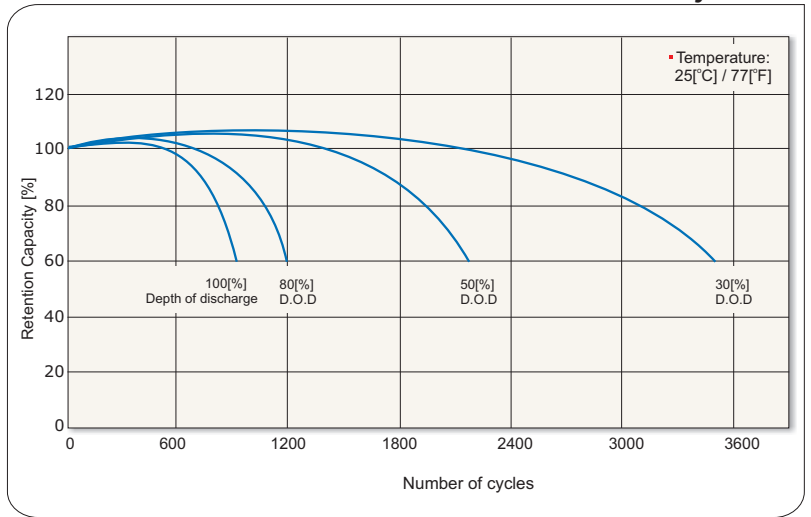
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	24h
1,90	2339	1871	1481	1230	1100	691	486	428	350	299	135
1,85	2783	2309	1812	1500	1298	757	520	453	374	318	143
1,83	2970	2473	1960	1636	1417	784	535	466	386	330	148
1,80	3156	2643	2098	1756	1515	802	549	480	396	336	151
1,75	3304	2804	2244	1884	1645	827	564	490	405	342	154
1,70	3445	2930	2387	2010	1745	843	575	505	414	345	155

F.V. - Final voltage

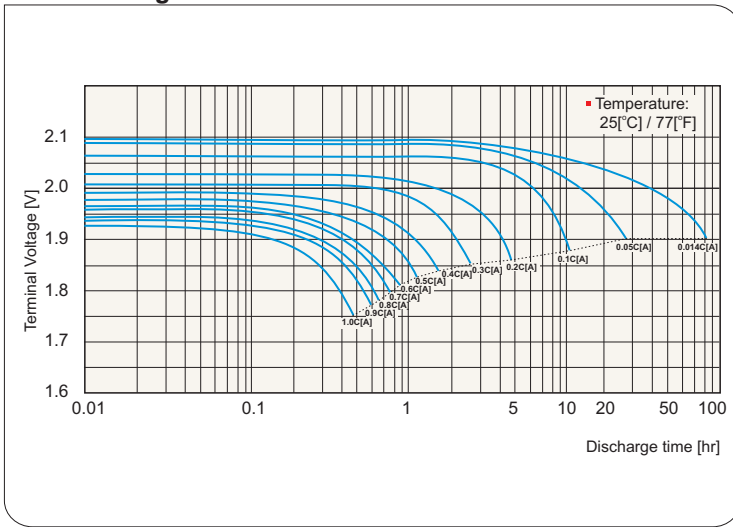
Cell life characteristics of standby use



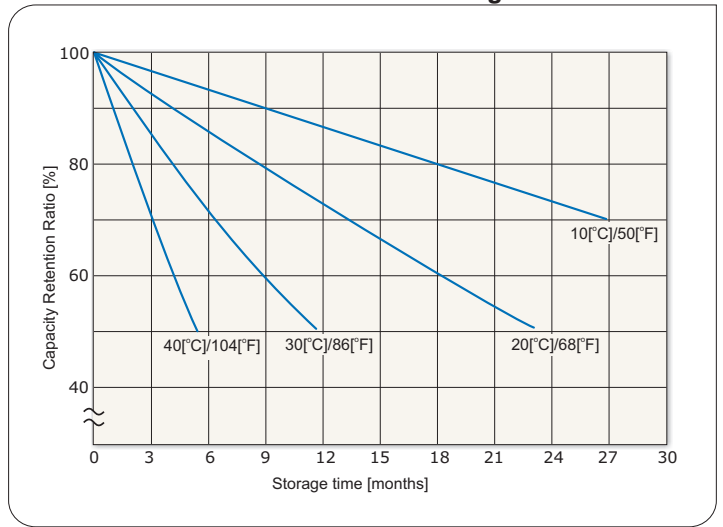
Cell life characteristics of cycle use



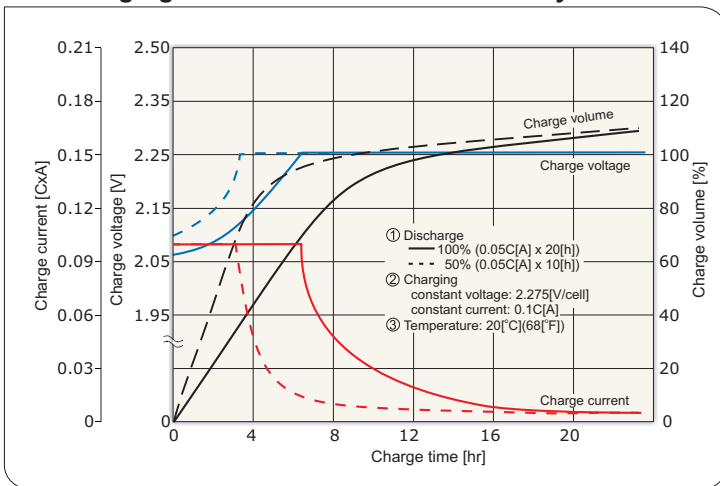
Cell discharge characteristics



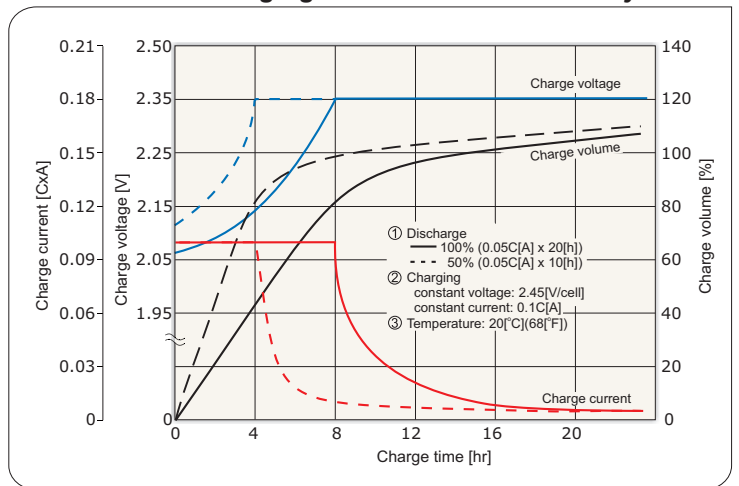
Cell self discharge characteristics



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