

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		260 Ah / C ₁₀	
Cell per unit		1	
Technology		AGM	
Design life		over 12 years @ 20°C* 15 years @ 25°C	
Dimensions	height	372,0 mm	
	length	109,0 mm	
	width	185,0 mm	
Weight		~17,0 kg	
Capacity @ 25°C	10h	26,7A @1,80V/cell.	267,0 Ah
	3h	65,4A @1,80V/cell.	196,2 Ah
	1h	147A @1,75V/cell.	147,0 Ah
	30 min	220A @1,75V/cell.	110,0 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	≤0,54 mΩ	
Charging voltage @ 20°C	standby use	2,25 V (-3 mV/°C)	
	cycle use	2,35 V (-4 mV/°C)	
Charging current	recommended	26 A	
	maximum	65 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	

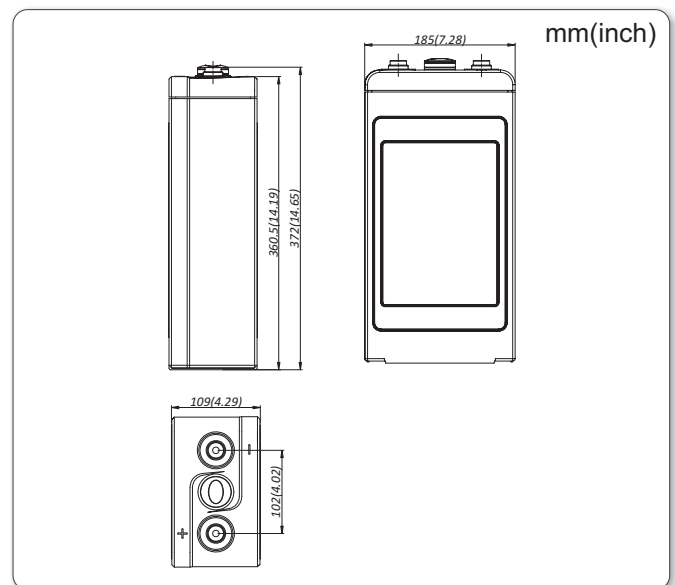
*) - According to Eurobat (Long Life group)

**) - Flame-retardant

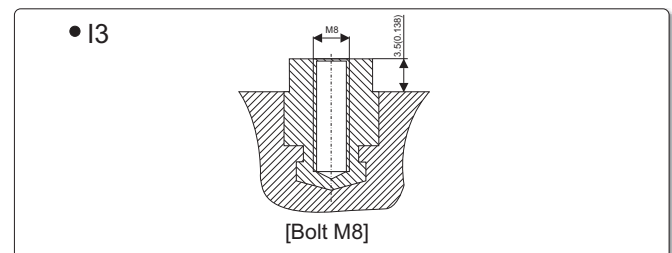
APPLICATIONS

- 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)

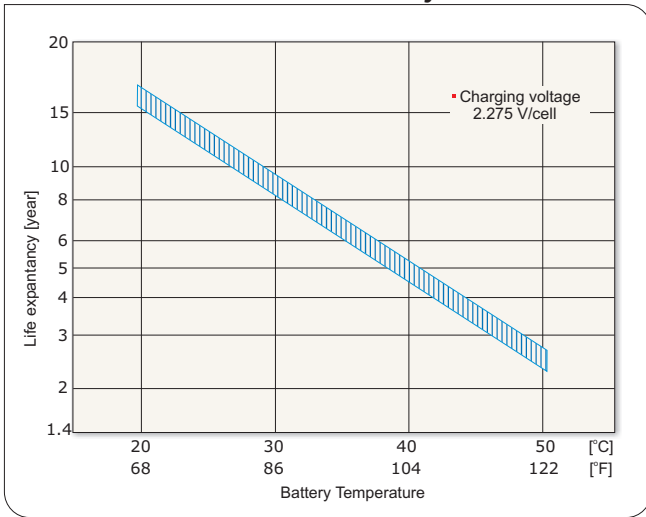
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	24h
1,90	261	212	158	129	110	58,2	42,6	37,4	30,1	25,1	11,5
1,85	304	251	184	149	124	62,0	44,2	38,9	31,2	26,0	11,8
1,83	319	266	196	157	129	63,3	44,7	39,4	31,6	26,2	11,9
1,80	343	283	206	165	137	65,4	45,8	40,2	32,2	26,7	12,1
1,75	357	300	220	177	147	67,4	46,8	41,2	32,8	27,3	12,4
1,70	374	317	237	186	154	69,6	48,2	41,9	33,2	27,7	12,5

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

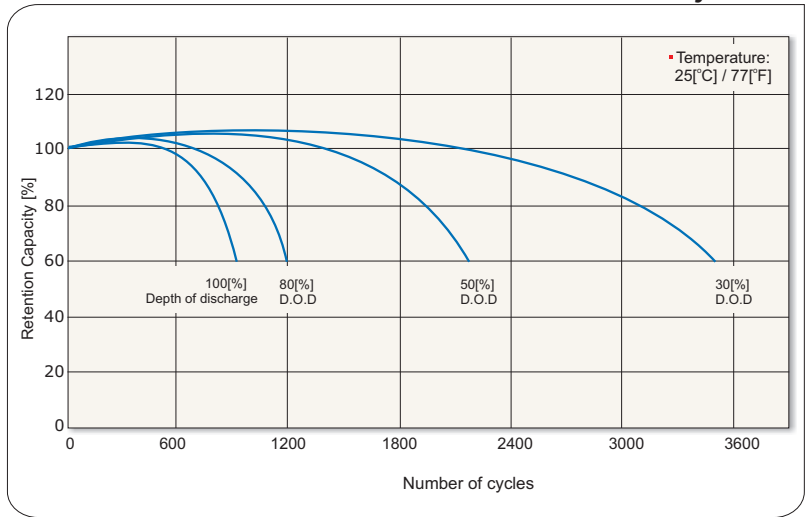
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	24h
1,90	509	414	317	259	227	124	88,0	75,2	59,0	49,3	23,4
1,85	577	477	375	309	263	133	94,2	80,4	63,1	53,2	24,4
1,83	600	500	398	327	279	137	96,8	82,4	63,9	54,3	24,9
1,80	634	524	422	341	289	141	98,8	84,9	65,2	55,3	25,4
1,75	653	550	438	351	296	146	102	87,5	66,9	56,2	25,8
1,70	674	571	453	364	308	151	104	89,6	69,5	57,1	26,2

F.V. - Final voltage

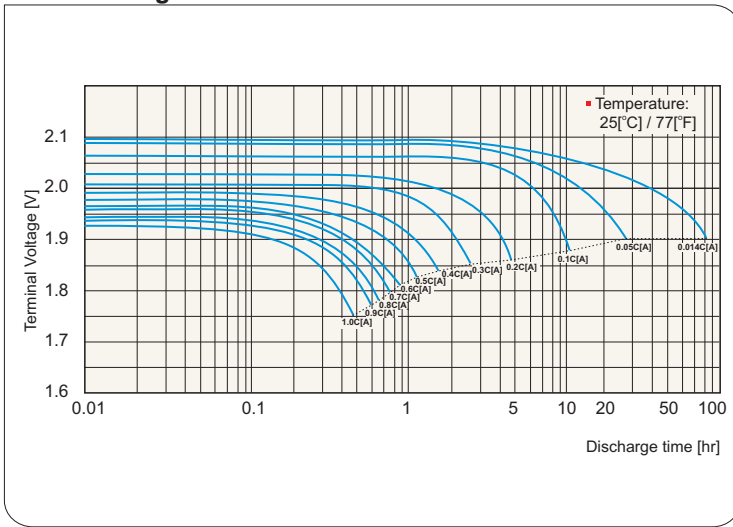
Cell life characteristics of standby use



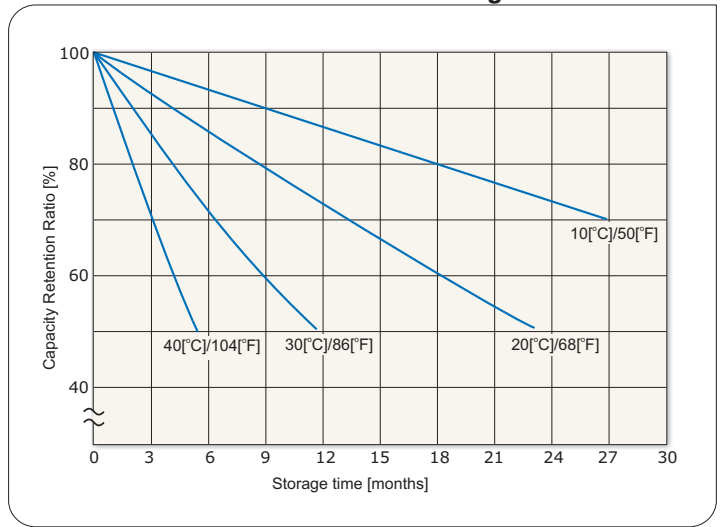
Cell life characteristics of cycle use



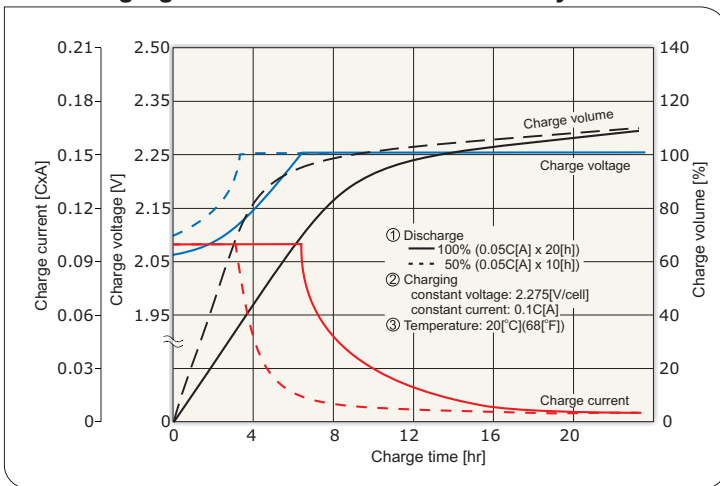
Cell discharge characteristics



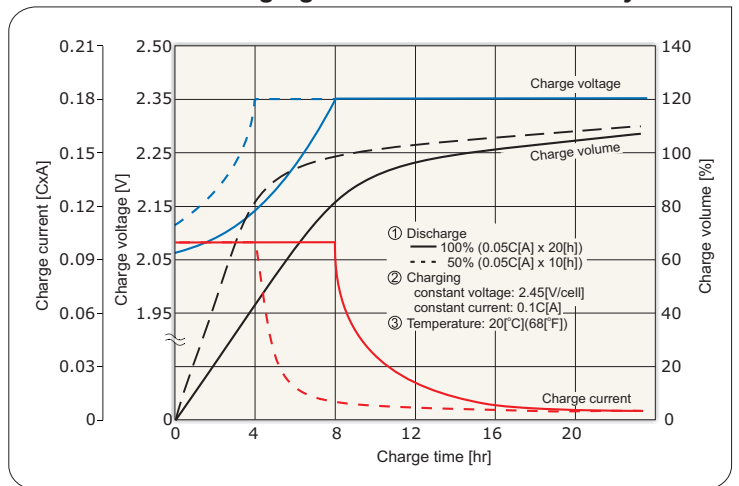
Cell self discharge characteristics



Cell charging characteristics for the standby use



Cell charging characteristics for the cycle use



Cell discharge current and final discharge voltage

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



*) C - Capacity