Sealed lead-acid cell

EUROPOWER®

Model: EXL 600

EXL Series

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 engeneering (the battery system **capacity even up to 12000 Ah**). They have a very high repeatibility of parameters and long designed life.

TECHNICAL DATA

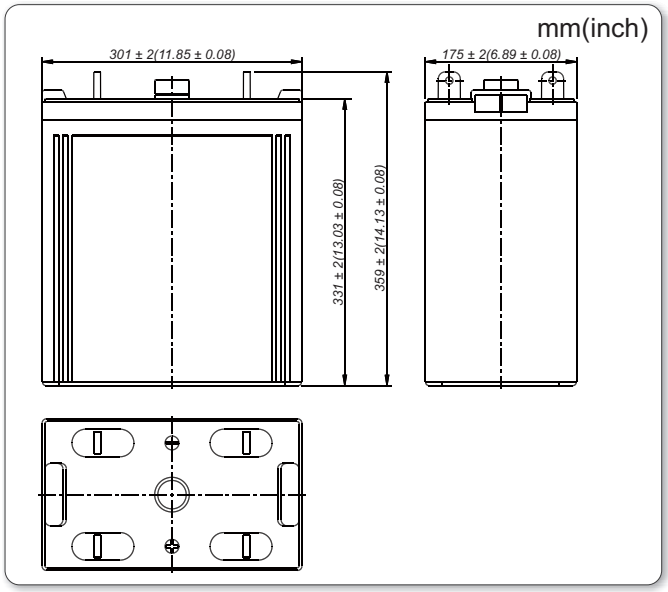
Nominal voltage			2 V
Nominal capacity			600 Ah / C_{10}
Cell per unit			1
Technology			AGM
Design life			over 17 years @ 20°C* over 15 years @ 25°C
Dimensions	height		359,0 mm
	length		301,0 mm
	width		175,0 mm
Weight			~46,0 kg
Capacity @ 25°C	20h	30,29A @1,85V/cell.	605,8 Ah
	8h	72,6A @1,80V/cell.	580,8 Ah
	5h	108,0A @1,75V/cell.	540,0 Ah
	1h	363,6A @1,75V/cell.	363,6 Ah
Ambient nominal temperature range	charge		0°C ~ 40°C
	discharge		-20°C ~ 50°C
	storage		-20°C ~ 40°C
Internal resistance	@ fully charge battery		≤0,7 mΩ
Charging voltage @ 20°C	standby use		2,25 V (-3 mV/°C)
	cycle use		2,35 V (-4 mV/°C)
Charging current	recommended		60 A
	maximum		150 A
Maximum discharge current (for 5 sec)			2640 A
Capacity retention during storage @ 20°C (self discharge)	after 1 month		97 %
	after 6 months		81 %
	after 12 months		64 %
Container material	standard		ABS UL 94-HB
	optional		ABS UL 94-V0**
Terminal	bolt fastened		B6
Terminal hardware initial torque			10,0 Nm

*) - According to Eurobat (Long Life group) **) - Flame-retardant

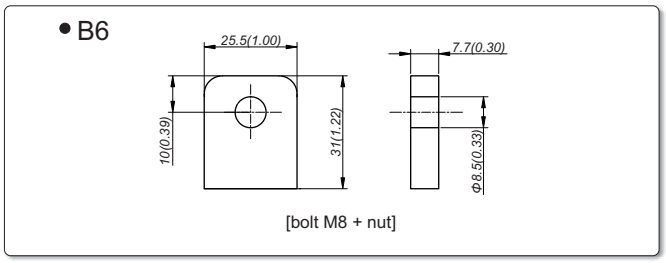
APPLICATIONS

- 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 30 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h
1,85	420,0	288,0	183,0	141,5	111,0	93,9	81,0	66,0	56,1	48,62	30,29
1,80	468,0	318,0	198,0	150,0	122,4	102,0	87,0	72,6	60,0	51,50	32,10
1,75	516,9	339,0	210,9	158,8	128,4	108,0	93,0	75,9	63,3	53,81	33,39
1,70	573,0	363,6	219,9	165,5	131,7	111,6	96,0	78,6	65,7	55,30	34,35
1,65	613,5	378,3	225,9	171,0	135,0	114,6	99,6	81,0	66,9	56,01	34,80
1,60	645,0	387,9	232,5	174,7	137,4	116,4	100,5	82,5	67,5	56,53	34,89

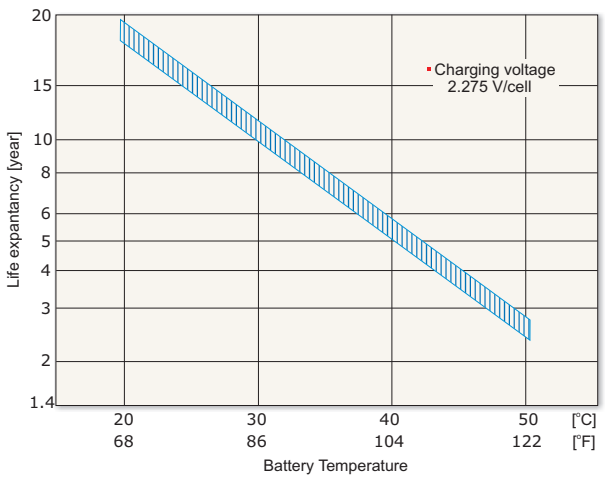
• Constant power (Power [W/cell], 25[°C] / 77[°F])

F.V. V/cell	Discharge time 30 min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h
1,85	786,9	540,0	347,4	270,6	210,3	181,2	161,4	133,5	111,6	96,72	60,26
1,80	873,0	594,0	375,0	286,6	231,6	197,4	171,9	142,8	118,1	101,39	63,20
1,75	956,4	630,0	397,5	301,8	242,6	206,4	179,4	147,3	123,4	104,86	65,08
1,70	1050,0	672,0	411,0	312,1	247,5	211,5	183,9	150,3	127,5	107,31	66,15
1,65	1128,0	693,0	417,0	318,5	252,6	214,5	187,5	153,0	129,3	108,83	66,71
1,60	1150,5	699,0	423,0	321,5	255,6	217,5	188,4	154,8	130,5	109,33	66,90

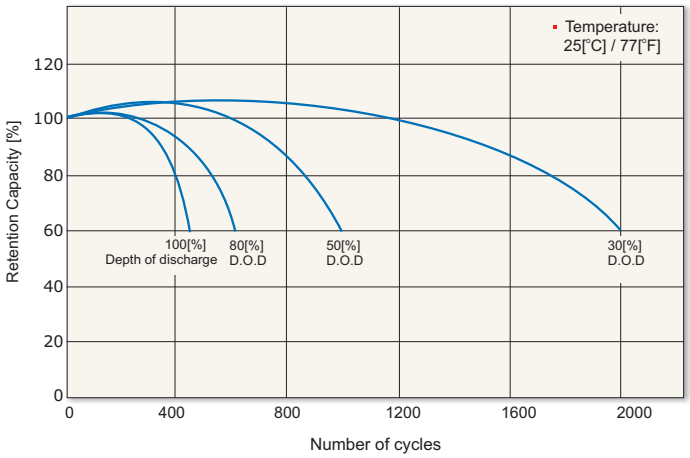
F.V. - Final voltage

EXL 600

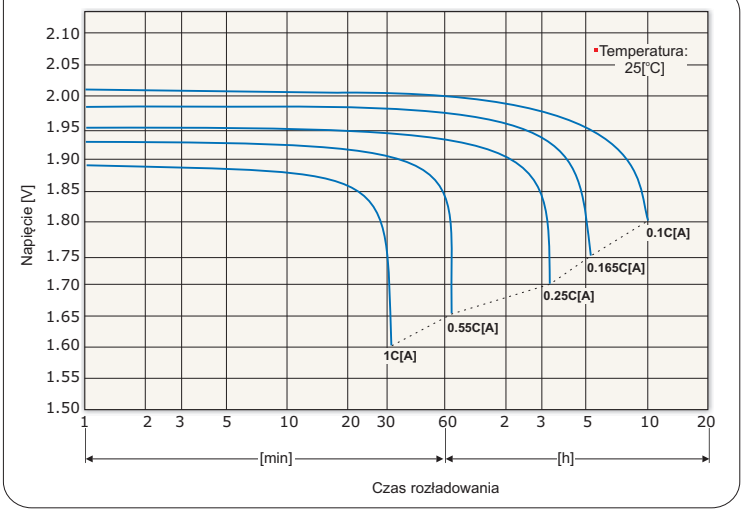
Cell life characteristics of standby use



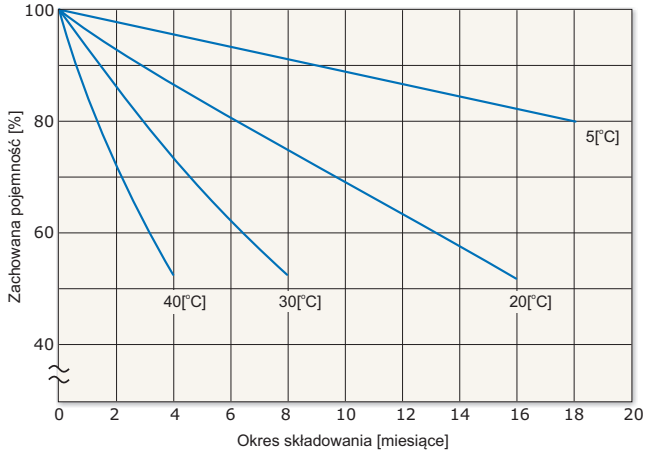
Cell life characteristics of cycle use



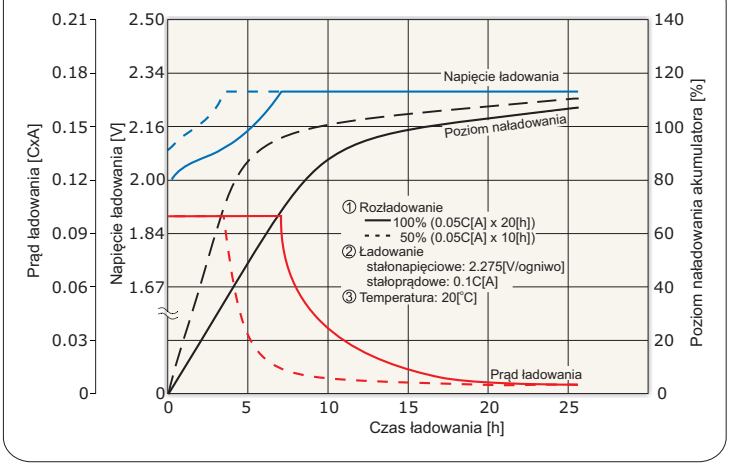
Cell discharge characteristics



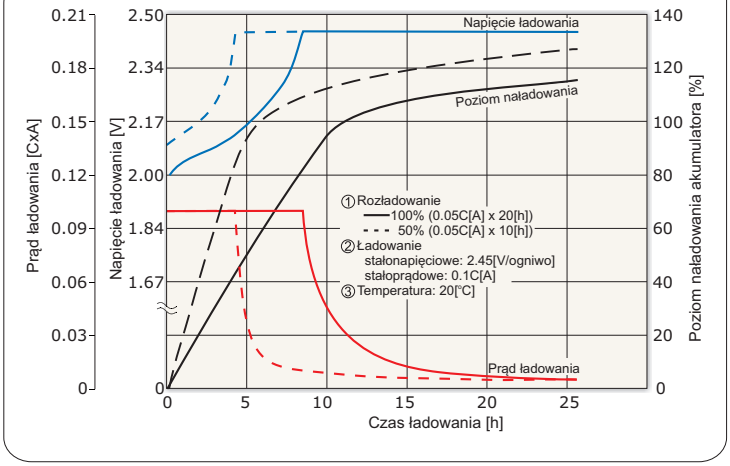
Cell self discharge characteristics



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]	1.75	1.70	1.65	1.60

*) **C** - Capacity

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