

Battery with over 12 years of the design life at 20°C - according to Eurobat (10 years at 25°C), made in the AGM technology. It has front terminal, and a special case construction that allows mounting in 19" and 23" cabinets. The EPL FTN series are equipped with Central Degassing System, which can lead the small amount of gas liberated during operation outside the sealed cabinet in which the batteries are installed. Battery has repeatable parameters and excellent discharge characteristics and this is why they are very often and readily used for the standby use in important telecommunication systems.



TECHNICAL DATA

Nominal voltage	12 V	
Nominal capacity	156 Ah / C ₁₀	
Cell per unit	6	
Technology	AGM	
Design life	over 12 years @ 20°C* 10 years @ 25°C	
Dimensions	height	270,0 mm
	length	558,0 mm
	width	125,0 mm
Weight	~52,5 kg	
Capacity @ 25°C	20h	8,29A @ 1,80V/cell. 165,8 Ah
	10h	15,6A @ 1,80V/cell. 156,0 Ah
	5h	29,0A @ 1,75V/cell. 145,0 Ah
	1h	96,8A @ 1,60V/cell. 96,8 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	≤4,27 mΩ
Charging voltage @ 20°C	standby use	13,4V to 13,6V (-18 mV/°C)
	cycle use	14,1 V to 14,4V (-24 mV/°C)
Charging current	recommended	15,50 A
	maximum	38,75 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	I2
Terminal hardware initial torque	8,0 Nm	

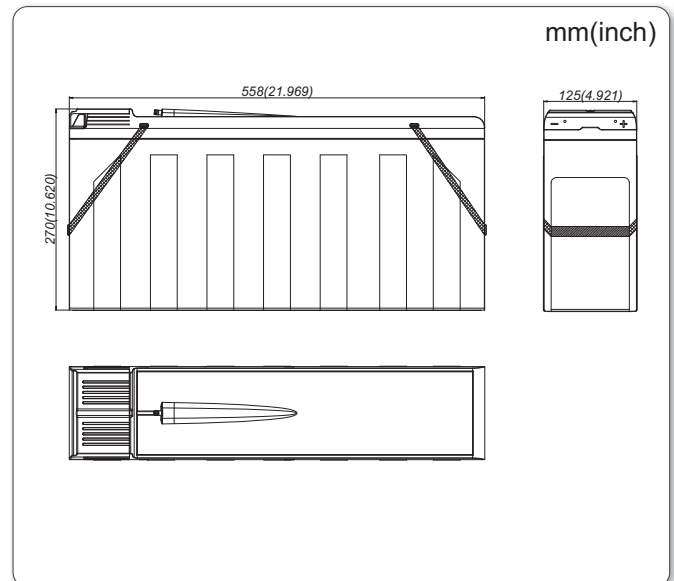
*) - According to Eurobat (Very Long Life group)

**) - Flame-retardant

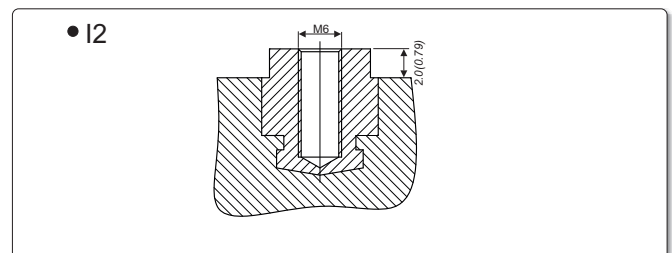
APPLICATIONS

- uninterruptible power supplies (UPS)
- emergency lighting systems
- telecommunication power plants
- telecommunication PABX
- GSM base stations
- server rooms

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)

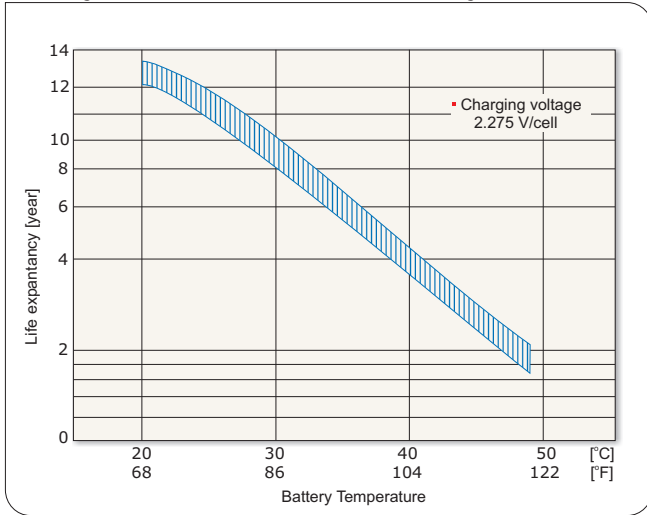
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	20h
1,85	347	207	138	104	84,9	36,3	26,7	23,0	17,9	14,9	8,11
1,80	389	233	152	112	91,6	38,6	28,2	24,3	19,0	15,6	8,29
1,75	433	250	159	117	94,1	38,8	29,0	24,8	19,1	15,8	8,37
1,70	472	258	160	118	95,5	39,3	29,5	25,0	19,3	15,9	8,39
1,67	476	263	162	119	96,2	39,5	28,9	25,0	19,3	15,8	8,41
1,60	507	273	165	120	96,8	40,2	29,1	25,1	19,5	16,1	8,48

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

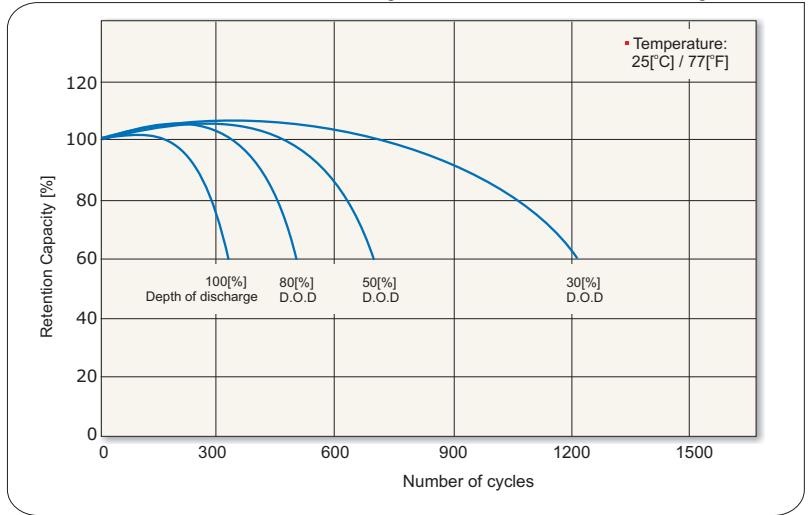
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	20h
1,85	621	390	264	202	165	70,8	52,5	45,4	35,5	29,5	16,3
1,80	695	436	288	217	177	74,5	55,0	47,7	37,0	30,5	16,7
1,75	757	461	295	222	178	74,7	56,3	48,2	37,1	30,6	16,7
1,70	811	465	296	223	180	75,5	56,9	48,3	37,5	30,7	16,7
1,67	816	470	296	223	181	75,5	55,7	48,3	37,5	30,9	16,7
1,60	848	479	299	225	182	76,5	55,8	48,3	37,9	31,1	16,8

F.V. - Final voltage

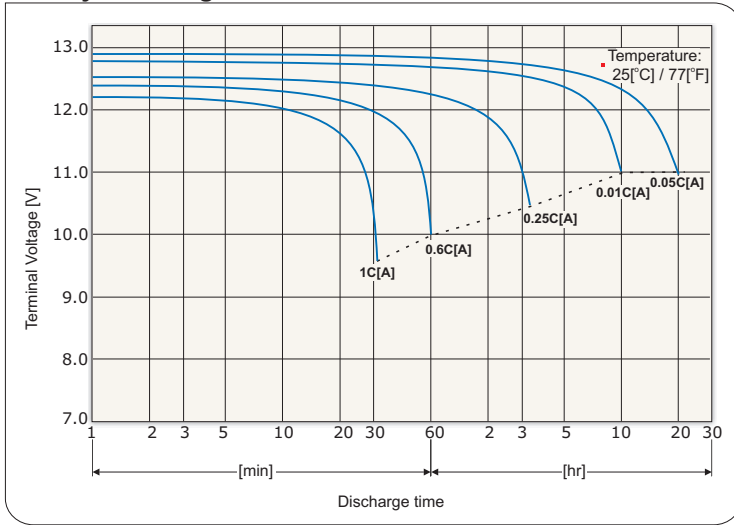
Battery life characteristics of standby use



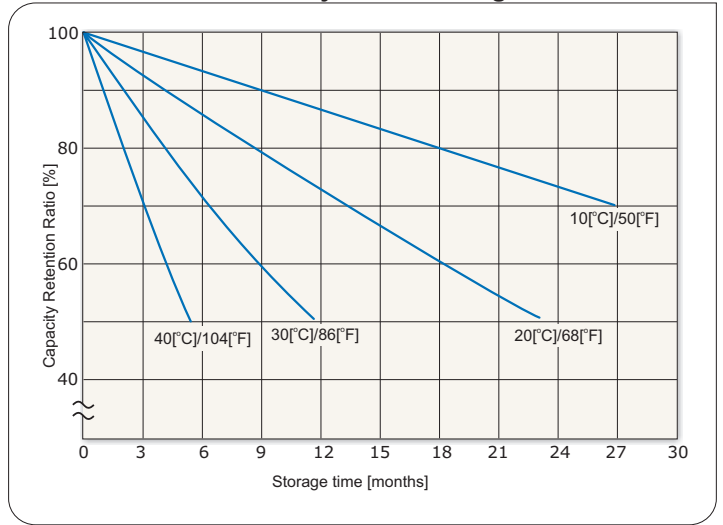
Battery life characteristics of cycle use



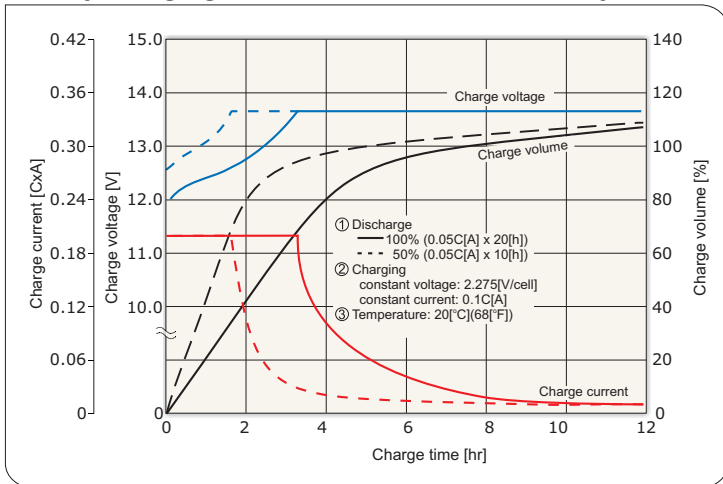
Battery discharge characteristics



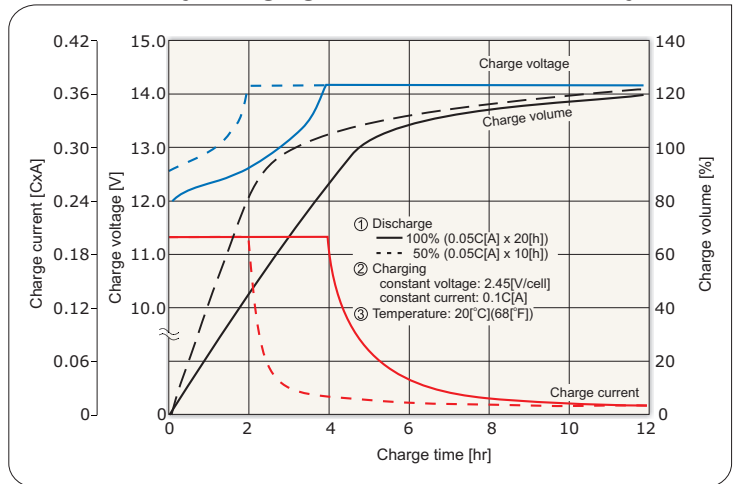
Battery self discharge characteristics



Battery charging characteristics for the standby use



Battery charging characteristics for the cycle use



Battery 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	1.67	1.60

*) C - Capacity

