

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	180 Ah / C ₁₀	
Cell per unit	6	
Technology	AGM	
Design life	over 12 years @ 20°C* 10 years @ 25°C	
Dimensions	height	316,0 mm
	length	558,0 mm
	width	125,0 mm
Weight		~80 kg
Capacity @ 25°C	20h 9,66A @1,80V/cell.	193,2 Ah
	10h 18,0A @1,80V/cell.	180,0 Ah
	5h 33,9A @1,75V/cell.	169,5 Ah
	1h 125,0A @1,60V/cell.	125,0 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	≤3,88 mΩ
Charging voltage @ 20°C	standby use	13,4V do 13,6V (-18 mV/°C)
	cycle use	14,1 V do 14,4V (-24 mV/°C)
Charging current	recommended	18 A
	maximum	45 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

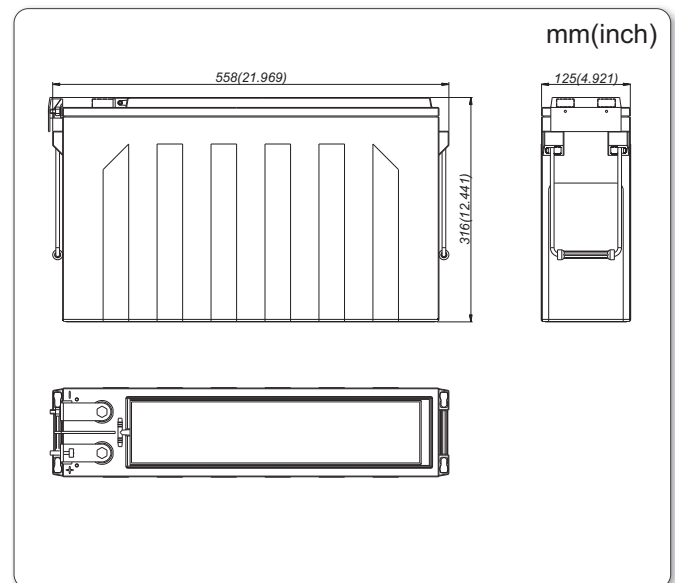
* - According to Eurobat (Long Life group)

** - Flame-retardant

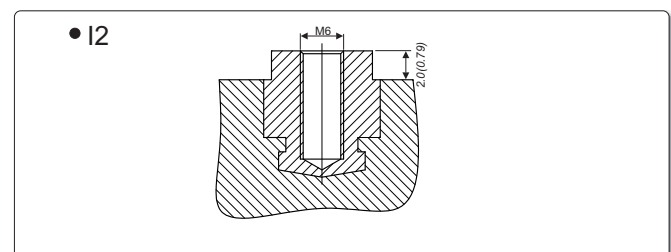
APPLICATIONS

- 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)

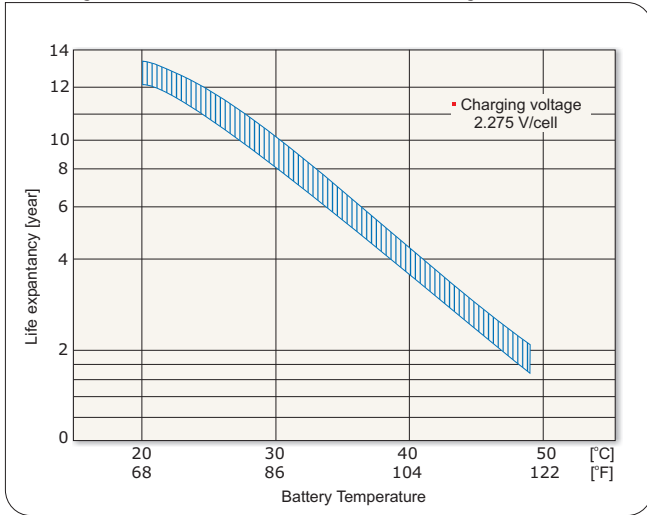
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	20h
1,85	336	239	170	131	113	48,0	32,1	26,9	21,8	17,8	9,57
1,80	388	268	183	142	118	49,8	33,3	27,9	22,4	18,0	9,66
1,75	432	292	194	149	122	50,6	33,9	28,4	22,5	18,1	9,66
1,70	455	305	202	152	123	50,9	34,1	28,7	22,7	18,3	9,76
1,67	472	311	205	153	124	51,1	34,2	28,8	22,8	18,4	9,85
1,60	504	316	208	153	125	51,3	34,4	29,1	23,0	18,5	10,0

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

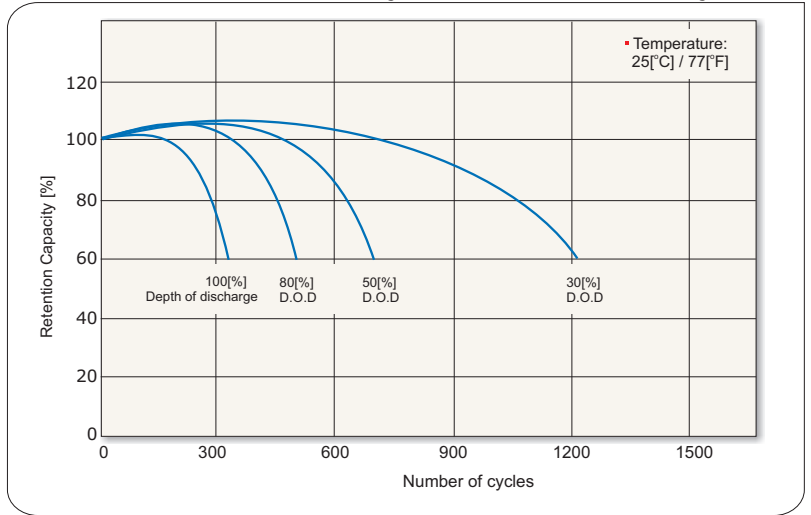
F.V. V/cell	Discharge time										
	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	20h
1,85	647	458	333	270	231	100	66,1	57,4	44,6	38,6	19,6
1,80	680	507	351	284	243	104	68,3	58,7	45,1	39,0	20,1
1,75	740	536	362	293	249	106	69,3	59,2	45,4	39,2	20,4
1,70	801	557	369	297	253	106	69,7	59,5	45,7	39,3	20,6
1,67	831	568	371	298	254	107	70,0	59,6	45,8	39,3	20,7
1,60	879	584	374	300	255	107	70,3	59,8	45,9	39,4	20,9

F.V. - Final voltage

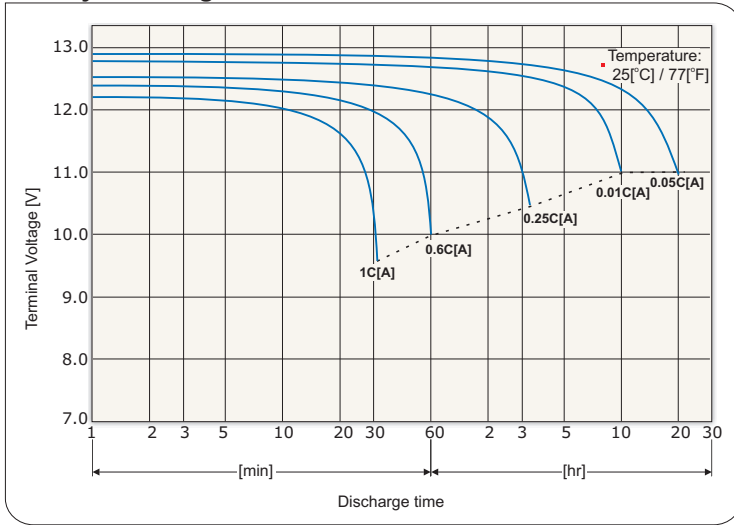
Battery life characteristics of standby use



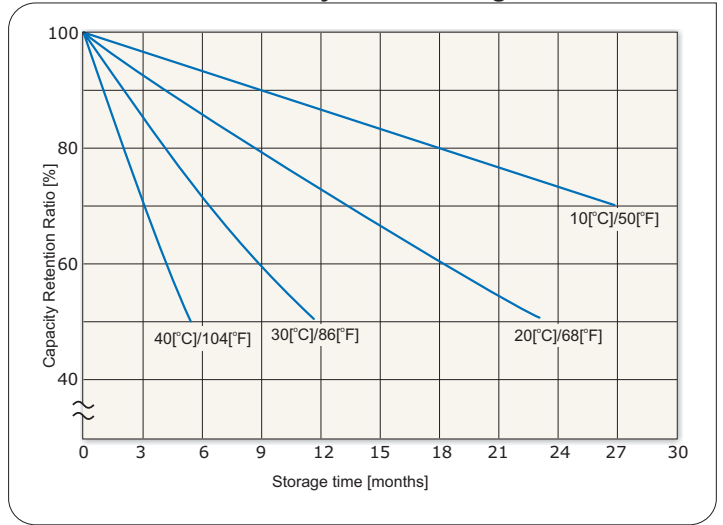
Battery life characteristics of cycle use



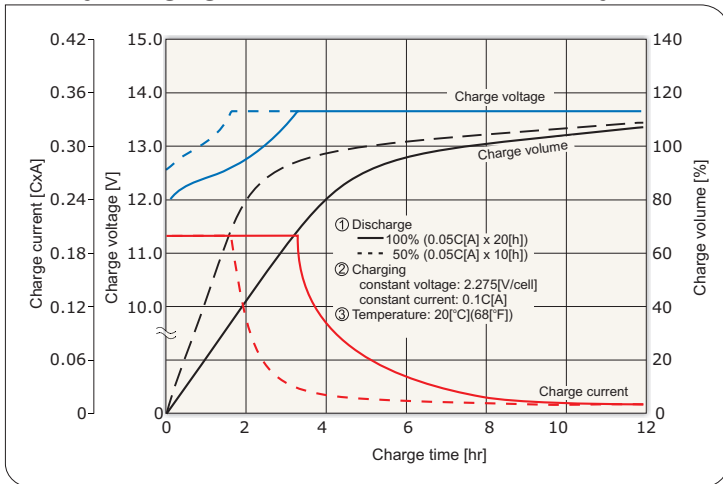
Battery discharge characteristics



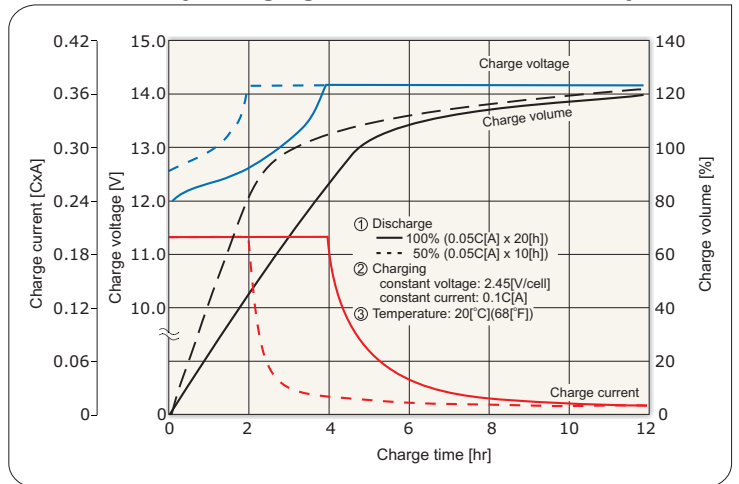
Battery self discharge characteristics



Battery charging characteristics for the standby use



Battery charging characteristics for the cycle use



Battery discharge current and final discharge voltage

Discharge current [A]	$0.2C > I$	$0.2C \leq I < 0.5C$	$0.5C \leq I < 1.0C$	$1.0C \leq I$
Final discharge voltage [V/cell]	1.75	1.70	1.67	1.60

*) C - Capacity

