Sealed lead-acid battery

EUROPOWER®

Model: EPL 155 - 12 FTNG — EPL FTNG Series

EPL-FTNG series are batteries with **over 12 years** of the design life at 20°C - according to Eurobat (10 years at 25°C), made in the **gel technology**. They have front terminals and a special case construction that allows them to be mounted in 19" and 23" cabinets. The EPL FTNG series is equipped with a **Central Degassing System**, consisting of a small conduit which can lead the small amount of gas liberated during operation outside the sealed cabinet in which the batteries are installed. EPL FTNG batteries have 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. Owing to the gel technology they are very often used for outdoor systems prone to large operating temperature changes.

Technical Data

Nominal voltage			12 V
Nominal capacity			155 Ah / C_{10}
Cell per unit			6
Technology			GEL
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	8,26A @1,80V/cell.	162,5 Ah
	10h	15,5A @1,80V/cell.	155,0 Ah
	5h	28,0A @1,75V/cell.	140,0 Ah
	1h	96,8A @1,60V/cell.	96,8 Ah
Ambient nominal temperature range		charge	0°C ~ 40°C
		discharge	-40°C ~ 50°C
		storage	-20°C ~ 40°C
Internal resistance		@ fully charge battery	≤4,30 mΩ
Charging voltage @ 20°C		standby use	13,5V do 13,8V (-18 mV/°C)
		cycle use	14,4 V do 15,0V (-24 mV/°C)
Charging current		recommended	15,50 A
		maximum	38,45 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			5,5 Nm

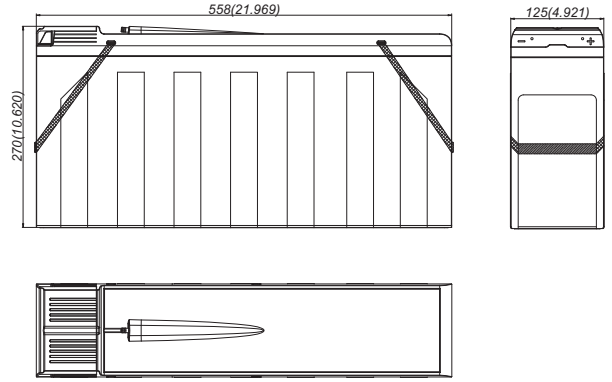
*) - According to Eurobat (Very Long Life group) **) - Flame-retardant

Applications

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

Dimensions

mm(inch)

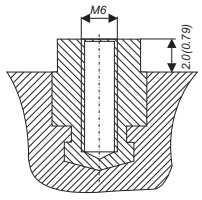


No Transport Restricted

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*)

Terminals

• I2



[Bolt M6]

Discharge Characteristics

• Constant current (Current [A], 25[°C] / 77[°F])

Discharge time

F.V. V/cell	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	20h
1,85	346,6	207,7	138,4	104,3	85,0	36,4	25,9	22,5	17,6	14,7	8,08
1,80	388,7	233,0	151,6	112,3	91,7	38,6	27,4	23,9	18,7	15,5	8,26
1,75	433,6	249,8	158,6	117,0	94,1	38,9	28,0	24,3	18,8	15,6	8,35
1,70	471,5	258,2	160,0	117,9	95,5	39,3	28,2	24,5	19,0	15,7	8,36
1,67	475,7	262,4	162,8	118,7	96,2	39,6	28,7	24,8	19,0	15,7	8,38
1,60	506,6	272,2	165,6	119,7	96,8	40,3	28,8	25,0	19,1	15,9	8,46

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

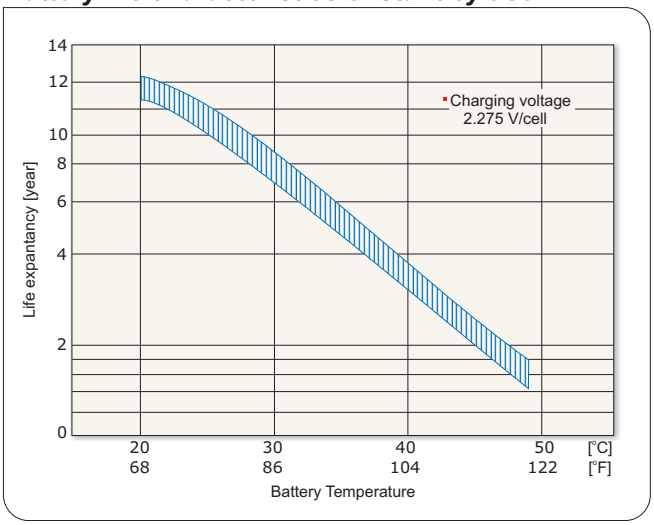
Discharge time

F.V. V/cell	5 min	15 min	30 min	45 min	1h	3h	5h	6h	8h	10h	20h
1,85	619,5	389,6	263,5	201,8	164,9	71,0	51,7	44,8	35,2	29,5	16,4
1,80	693,7	435,9	287,3	217,2	177,5	74,8	54,1	47,1	36,6	30,6	16,7
1,75	755,4	461,1	294,3	221,4	179,0	75,0	55,0	47,6	36,8	30,6	16,7
1,70	810,1	463,9	295,7	222,8	181,8	75,8	55,0	47,8	37,1	30,6	16,7
1,67	814,3	469,5	295,7	222,8	181,8	75,8	55,8	48,1	37,4	30,9	16,7
1,60	846,5	477,9	298,5	224,2	183,2	76,8	55,8	48,4	37,6	31,2	16,9

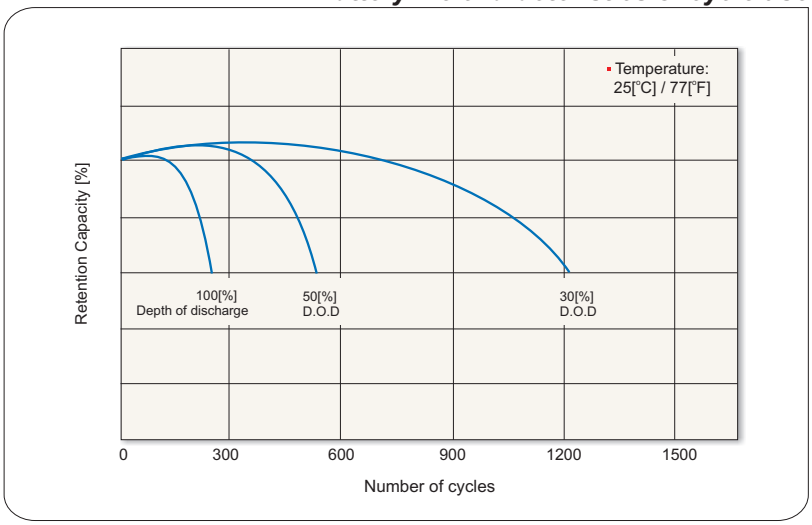
F.V. - Final voltage

EPL 155 - 12 FTNG

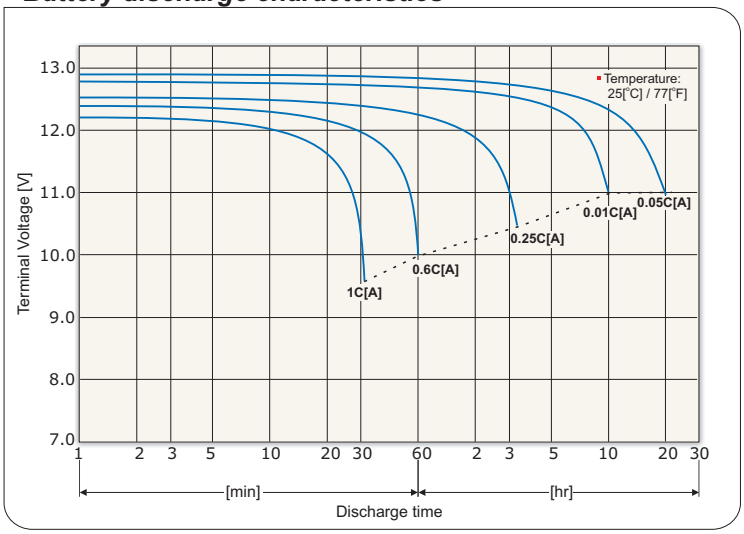
Battery life characteristics of standby use



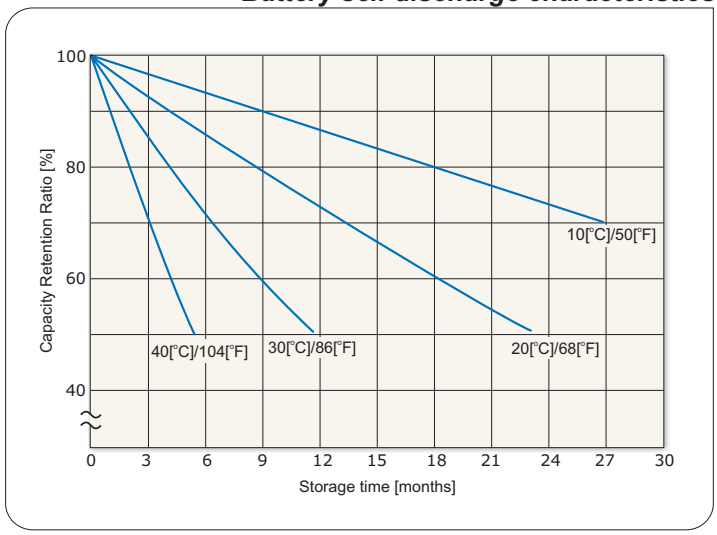
Battery life characteristics of cycle use



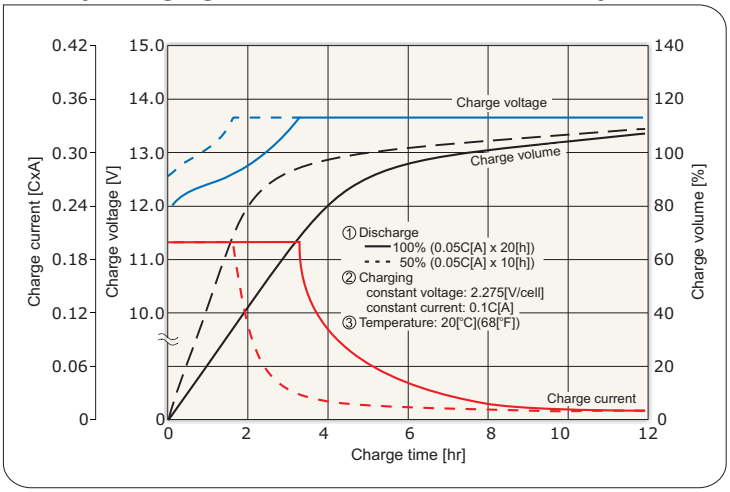
Battery discharge characteristics



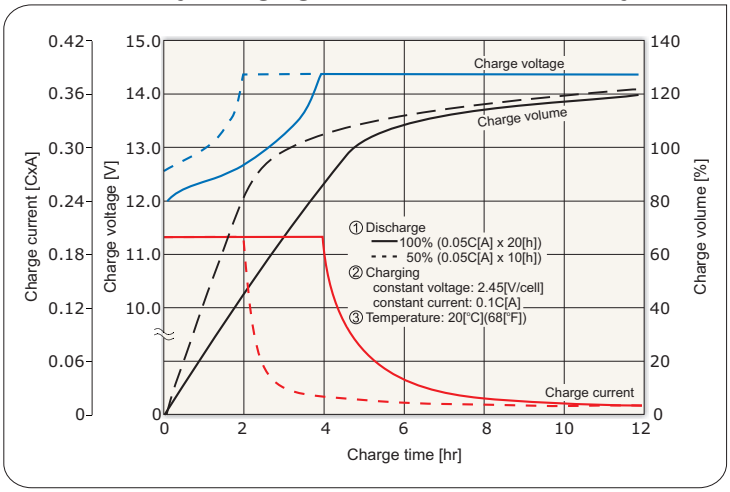
Battery self discharge characteristics



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	1.55	1.30

*) **C** - Capacity

Date of issue: 18.11.2014; change number: 2; date of change: 02.06.2016