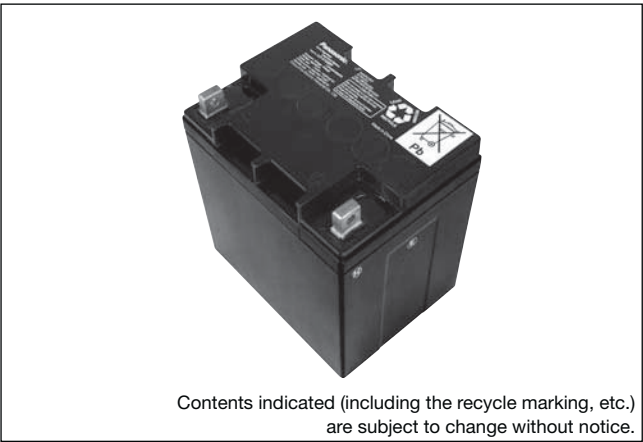


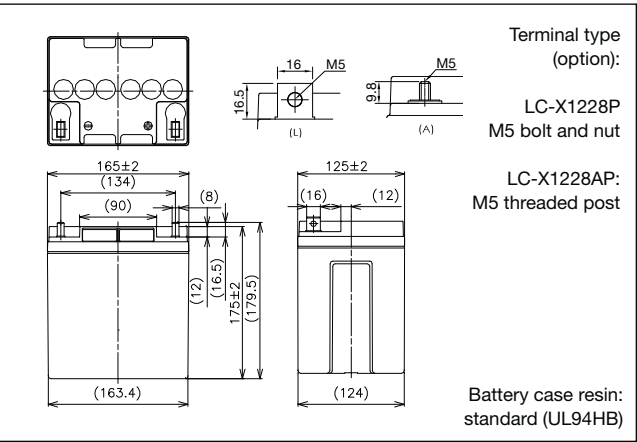
LC-X1228P/AP*1



Contents indicated (including the recycle marking, etc.) are subject to change without notice.

For standby power supplies.
Expected trickle design life: 10 – 12 years at 20°C according to Eurobat.

Dimensions (mm)



Specifications

Nominal voltage		12V
Nominal capacity (20 hour rate)		28Ah
Dimensions	Length	165mm
	Width	125mm
	Height	175mm
	Total Height	LC-X1228P: 179.5mm LC-X1228AP: 175mm
Approx. mass		11kg
Terminal		M5 Bolt and Nut type/ M5 threaded post

Characteristics

Capacity (25°C)	20 hour rate	28.0Ah
	10 hour rate	26.5Ah
Internal resistance	Fully charged battery (25°C)	8mΩ
	40°C	102%
	25°C	100%
Temperature dependency of capacity (20 hour rate)	0°C	85%
	-15°C	65%
Self discharge (25°C)	After 3 months	91%
	After 6 months	82%
	After 12 months	64%

Watt Table

Cut-off V	(Wattage/Battery)															
	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	1423	1160	865	664	585	410	304	260	159	129	91.6	74.1	61.1	40.8	31.8	16.8
9.9V	1357	1093	849	654	579	404	294	254	156	128	90.4	72.9	59.9	51.6	31.8	16.8
10.2V	1301	1026	818	643	567	397	294	251	155	127	89.3	71.7	59.9	51.6	31.8	16.8
10.5V	1201	976	784	621	545	386	282	247	154	126	88.1	71.7	59.9	51.6	31.8	16.8
10.8V	1052	903	773	610	539	374	255	218	149	118	84.5	70.5	59.9	50.4	31.8	13.9

Ampere Table

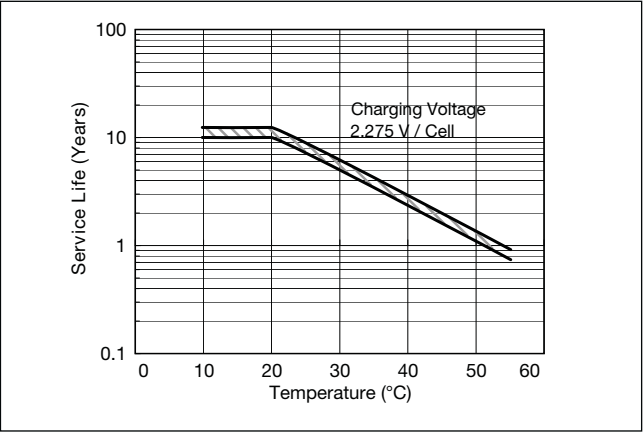
Cut-off V	(Ampere/Battery)															
	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	128	104	77.2	57.7	50.4	35.0	25.9	22.1	13.5	10.9	7.7	6.2	5.1	3.4	2.65	1.40
9.9V	122	98.0	75.8	56.9	49.9	34.5	25.0	21.6	13.2	10.8	7.6	6.1	5.0	4.3	2.65	1.40
10.2V	117	92.0	73.0	55.9	48.9	33.9	25.0	21.3	13.1	10.7	7.5	6.0	5.0	4.3	2.65	1.40
10.5V	108	87.5	70.0	54.0	47.0	33.0	24.0	21.0	13.0	10.6	7.4	6.0	5.0	4.3	2.70	1.40
10.8V	94.6	81.0	69.0	53.0	46.5	32.0	21.7	18.5	12.6	10.0	7.1	5.9	5.0	4.2	2.65	1.16

*1 This battery is also available with a flame retardant battery case resin (UL94 V-0).

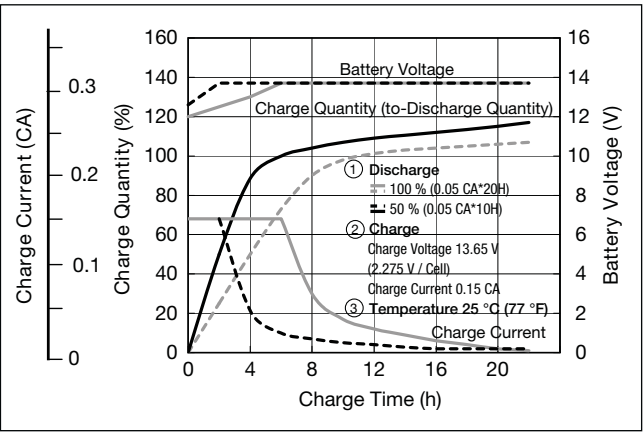
Charging Method

Trickle use	Control voltage: 13.6 - 13.8V; Initial current: 4.2A or smaller
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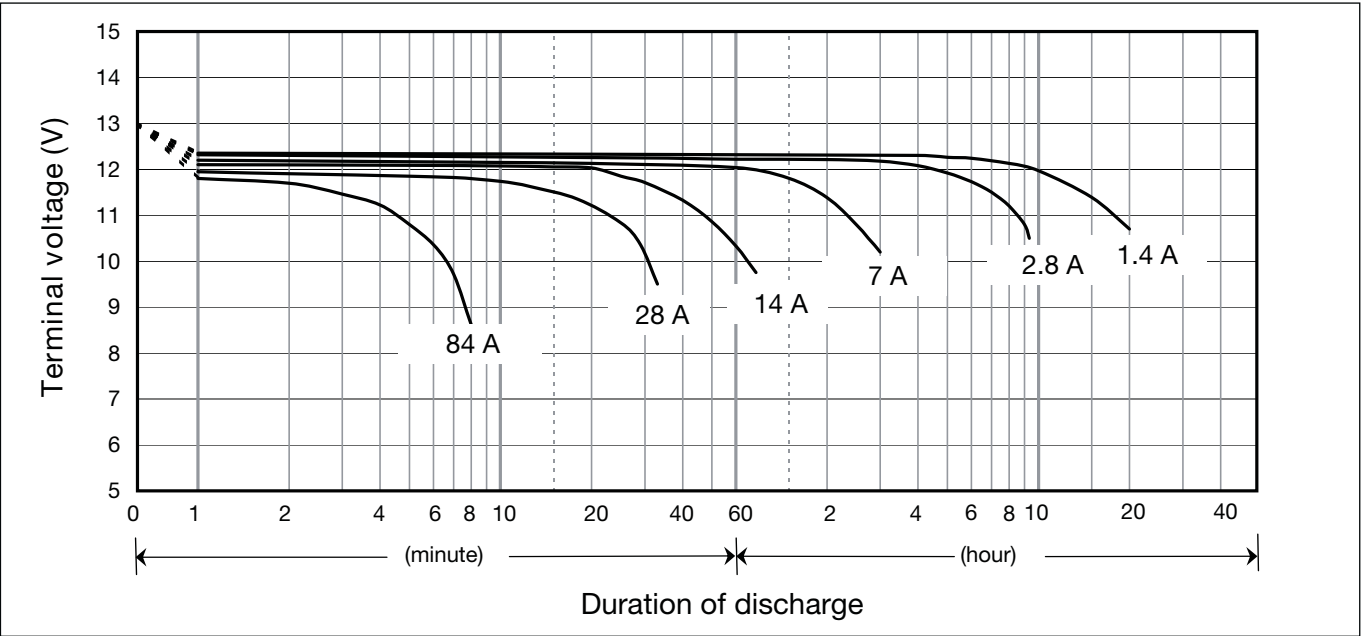
Influence of Temperature on Trickle life



Constant-voltage and constant-current charge characteristics for Trickle use



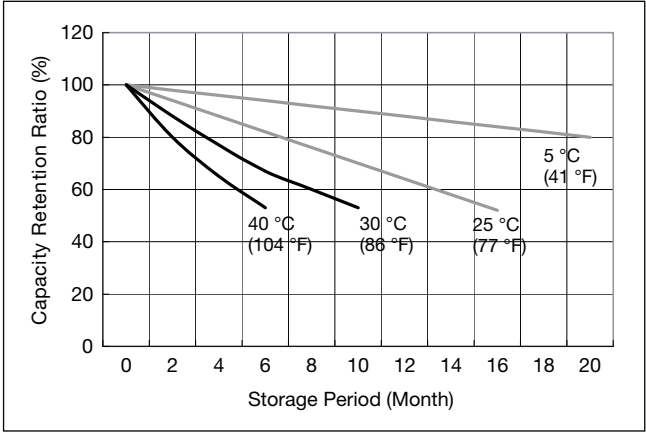
Discharge characteristics



Cut off voltage

Discharge current	1.4A - 5.6A	5.6A - 14A	14A - 28A	28A - 56A	56A - 84A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

Residual capacity vs storage period



Discharge capacity by temperature and by discharge current

