

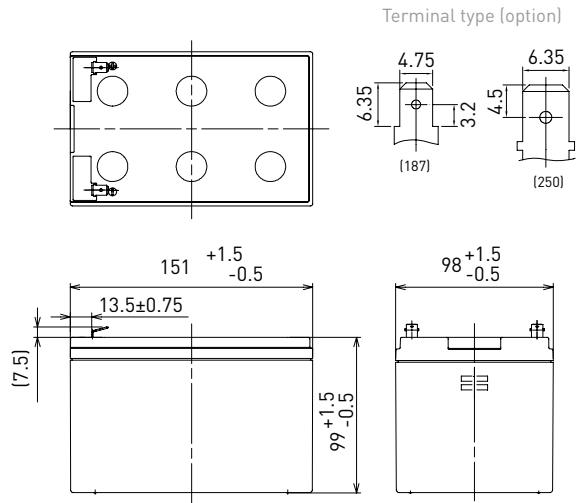
# LC-PA1216P/P1

FOR STANDBY POWER SUPPLIES.  
 EXPECTED TRICKLE DESIGN LIFE: 10 – 12 YEARS AT 20°C  
 ACCORDING TO EUROBAT.

DIMENSIONS (MM)

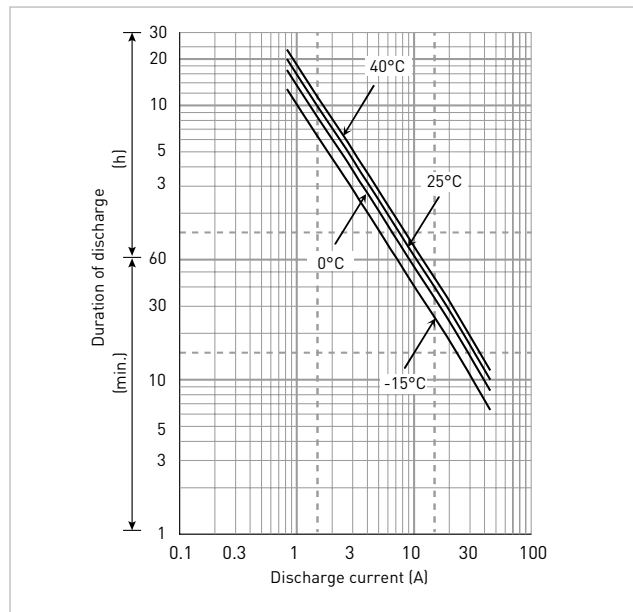


Contents indicated (including the recycle marking, etc.) are subject to change without notice. Battery case resin: flame-retardant (UL94 V-0)



Specifications		LC-PA1216P/P1
<b>Nominal voltage (V)</b>		12
<b>Nominal capacity</b>	<b>20 hours rate (Ah)</b>	16.0
<b>Dimensions</b>	<b>Length (mm)</b>	98
	<b>Width (mm)</b>	151
	<b>Total height (mm)</b>	105
<b>Approx. mass (kg)</b>		4.10
<b>Terminal type</b>		Faston 187/250
<b>Capacity (25°C)</b>	<b>20 hours rate (Ah)</b>	16.0
	<b>10 hours rate (Ah)</b>	15.0
	<b>3 hours rate (Ah)</b>	13.0
	<b>1 hour rate (Ah)</b>	11.0
<b>Impedance (mΩ)</b>	<b>Fully charged battery (25°C)</b>	13
	<b>Temperature dependency of capacity (%) – 20 hours rate</b>	
	40°C	102
	25°C	100
	0°C	85
	-15°C	65
<b>Remaining capacity (25°C)</b>	<b>After 3 months (%)</b>	91
	<b>After 6 months (%)</b>	82
	<b>After 12 months (%)</b>	64

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

(Wattage/battery)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	850	716	445	339	277	201	151	124	91.9	73.1	52.8	41.2	34.5	29.7	19.0	10.2
9.9V	815	685	427	323	268	197	150	121	90.1	72.5	52.6	40.9	34.2	29.1	18.9	10.2
10.2V	760	640	417	307	260	193	144	117	85.4	68.5	50.3	40.1	32.8	28.4	18.1	9.81
10.5V	680	580	398	293	249	185	140	115	82.0	66.4	49.3	39.3	32.7	28.1	18.0	9.78
10.8V	590	520	350	281	238	178	131	106	76.5	59.2	45.7	36.3	29.9	26.0	16.8	9.16

AMPERE TABLE (25°C)

(Ampere/battery)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	82.9	66.3	44.7	32.7	26.3	19.1	13.8	10.9	7.98	6.21	4.33	3.28	2.82	2.34	1.54	0.800
9.9V	76.5	62.2	43.8	32.5	25.9	18.9	13.7	10.8	7.82	6.17	4.31	3.26	2.79	2.33	1.53	0.800
10.2V	70.3	58.3	42.7	31.8	25.4	18.7	13.6	10.7	7.66	6.01	4.26	3.24	2.77	2.32	1.52	0.800
10.5V	62.3	52.2	39.5	29.6	24.2	18.3	13.4	10.5	7.50	5.80	4.20	3.22	2.75	2.31	1.51	0.800
10.8V	52.4	45.8	35.3	27.6	23.5	17.6	13.2	10.3	7.29	5.52	4.11	3.18	2.68	2.28	1.49	0.800

All mentioned values are average values

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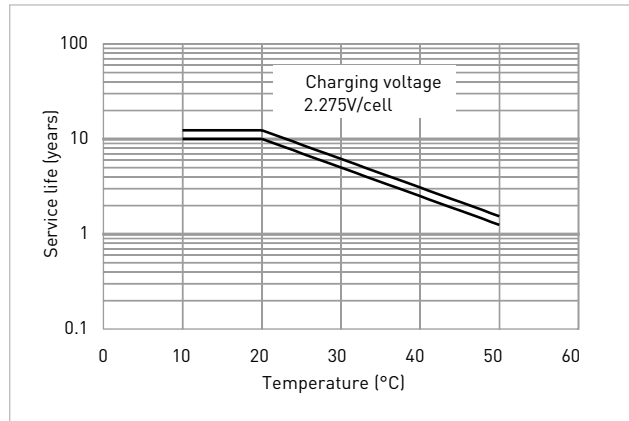
## CHARGING METHOD (25°C)

<b>Cycle use</b>	Control voltage: 13.6V - 13.8V Initial current: 2.40A or smaller
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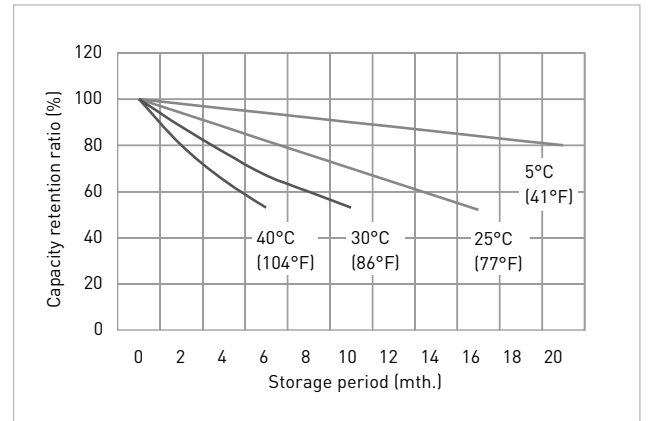
## CUT-OFF VOLTAGE

<b>Discharge current</b>	0.800A - 3.20A	3.20A - 8.00A	8.00A - 16.0A	16.0A - 32.0A	32.0A - 48.0A
<b>Cut-off voltage</b>	10.5V	10.2V	9.9V	9.3V	8.7V

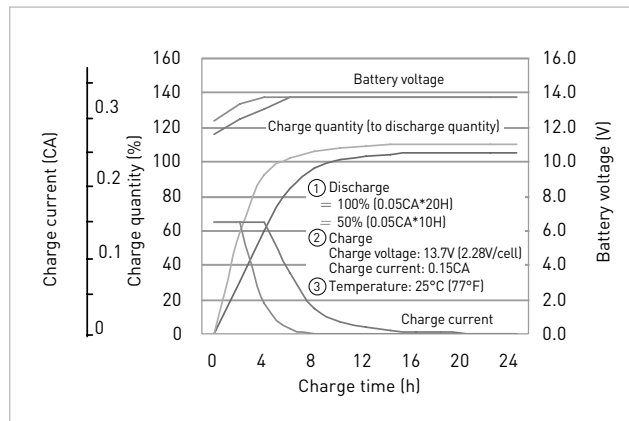
## INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



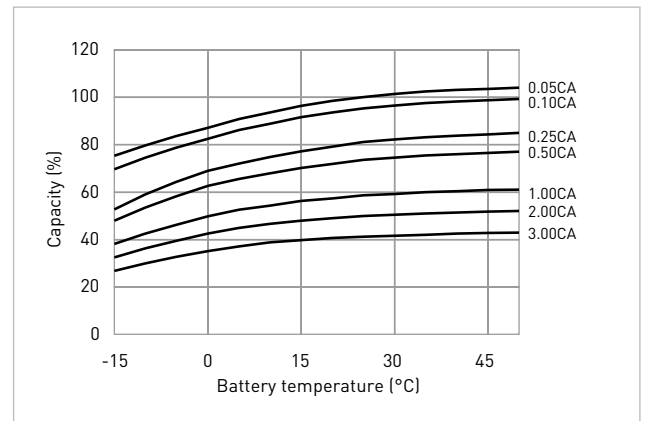
## RESIDUAL CAPACITY TEST RESULT



## CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



## DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



## DISCHARGE CHARACTERISTICS

