

'Purely theoretical capacity based life time calculation.

CUSTOMER: See Insights LLC, Raleigh, NC

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Vmin total= 3.3 V

No. of cells in series= 1

APPLICATION LOAD PROFILE

Vmin per cell= 3.3 V

LOAD	CURRENT	PULSE	No. OF	F R E Q U E N C Y	AVG.
DESCRIPTION	RATE[mA]	WIDTH[sec]	PULSES		CURRENT
Background	0.5	1	1	PER 1 SEC	500 μ A
Pulse 1	50	386	1	PER 28800 SEC	670.14 μ A

TOTAL AVERAGE - NET APPLICATION CURRENT = 1170.14 μ A

ANNUAL CONSUMPTION = mAh/year 10250.42

LIFE-TIME SUMMARY

CELL MODEL	TL-6930	UNITS
CELL SIZE	D	
ELECTROLYTE TYPE	SC	
NUMBER OF CELLS IN PARALLEL	1	
MAXIMUM PULSE AMPLITUDE PER CELL	50	mA
NOMINAL CAPACITY PER CELL	16	Ah
MAX NET DOD	90%	%
TEMPERATURE FACTOR	1	
SELF DISCHARGE AT OCV STORAGE PER CELL	5.7	μ A
STORAGE-AT-OCV CAPACITY LOSS PER YEAR	0.050	Ah
STORAGE BEFORE USE	1	Years
AVAILABLE NET CAPACITY PER CELL	14.35	Ah
AVERAGE TEMPERATURE (-5°C...50°C)	22.8	degC
AVERAGE S.D. CURRENT PER CELL	80.00	μ A
TOTAL CURRENT PER CELL (including S.D.)	1250.14	μ A
CAPACITOR SUPPORT OPTION	HLC-1520A	μ F
AVERAGE OPERATING TIME =	1.31	Years
MINIMUM OPERATING TIME (with max. S.D.) =	1.26	Years
EXPECTED LT (FROM THE SPEC)	1	Years

Note: Any representations in this form, are for informational use only and are not construed as warranty either expressed or implied, for the actual operating life of this battery.