

LEX TEC INC

DATALEX

STANDBY SERIES NP7-12 (12V7.5AH/20HR)

Specifications

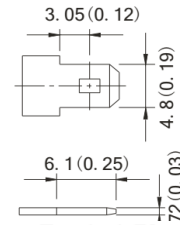
Nominal Voltage	12V	
Nominal Capacity(20hr)	7.5AH	
Dimension	Length	151±2mm(5.94inch)
	Width	65±2mm(2.56inch)
	Height	94±2mm(3.7inch)
	Total Height	98±2mm(3.86inch)
Approx Weight	Approx. 2.08kg(+ -3%)	
Terminal Type	F1/F2	
container Material	ABS(UL-94HB)	
Internal Resistance	Approx.20mΩ	
Rated Capacity	7.5AH	(20hr, 1.75V/cell,25°C/77°F)
	7.0AH	(10hr, 1.75V/cell,25°C/77°F)
	6.2AH	(5hr, 1.75V/cell,25°C/77°F)
	5.7AH	(3hr, 1.75V/cell,25°C/77°F)
	4.0AH	(1hr, 1.75V/cell,25°C/77°F)
Max. Discharge Current	105A(5S)	
Nominal Operating Temp. Range	Limit of operating temperature (minimum -05°C and +45°C)	
Cycle Use	Charge Current Less Than 0.25CA	
	14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C	
Floating Use	13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	65%
Self-discharge	3 month	Remaining capacity: 91%
	6 month	Remaining capacity:82%
	12month	Remaining capacity:65%



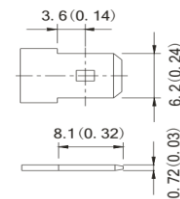
NP7-12

Terminal Type

Terminal F1



Terminal F2



Constant Power Discharge at 25°C(77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	45.7	31.5	21.8	13.5	7.98	4.66	3.55	2.82	2.34	2.00	1.31	0.69
1.75V/cell	46.5	32.1	22.2	13.8	8.13	4.75	3.61	2.87	2.39	2.04	1.33	0.70
1.70V/cell	47.9	33.1	23.6	14.3	8.27	4.83	3.68	2.92	2.43	2.07	1.35	0.71
1.67V/cell	49.3	34.0	25.6	15.1	8.36	4.88	3.72	2.95	2.45	2.10	1.37	0.72
1.60V/cell	50.7	35.0	26.9	15.8	8.45	4.94	3.76	2.99	2.48	2.12	1.38	0.73

Constant Current Discharge at 25°C(77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	23.4	16.2	11.2	6.94	4.09	2.39	1.82	1.45	1.20	1.03	0.67	0.35
1.75V/cell	23.9	16.5	11.4	7.07	4.17	2.44	1.85	1.47	1.22	1.05	0.68	0.36
1.70V/cell	24.6	17.0	12.1	7.36	4.24	2.48	1.89	1.50	1.25	1.06	0.69	0.37
1.67V/cell	25.3	17.5	13.1	7.77	4.29	2.51	1.91	1.52	1.26	1.08	0.70	0.37
1.60V/cell	26.0	18.0	13.8	8.10	4.33	2.53	1.93	1.53	1.27	1.09	0.71	0.37

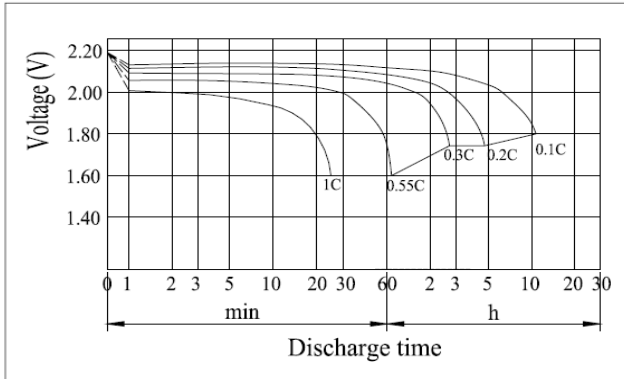
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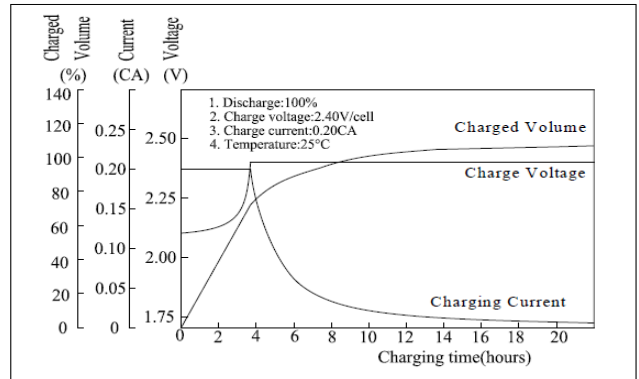
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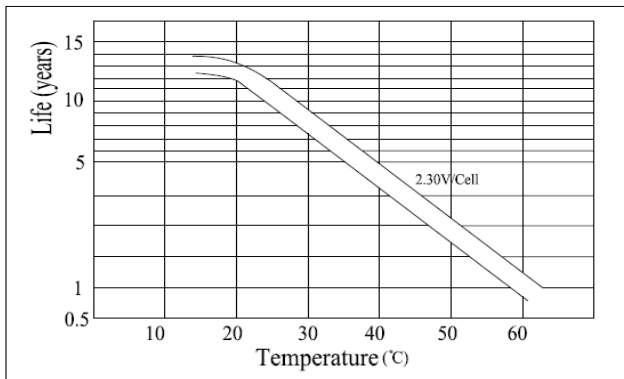
Discharge Characteristics



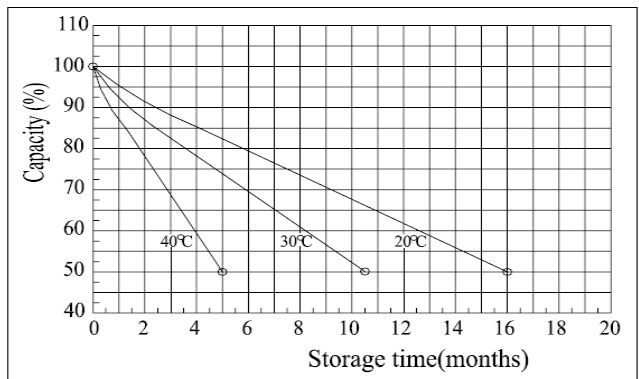
Float Charging Characteristics



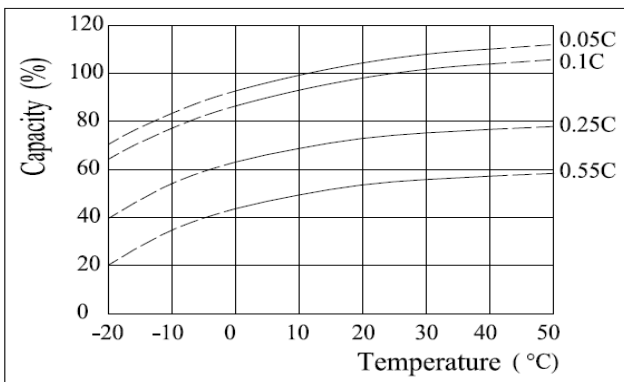
Floating Life on Temperature



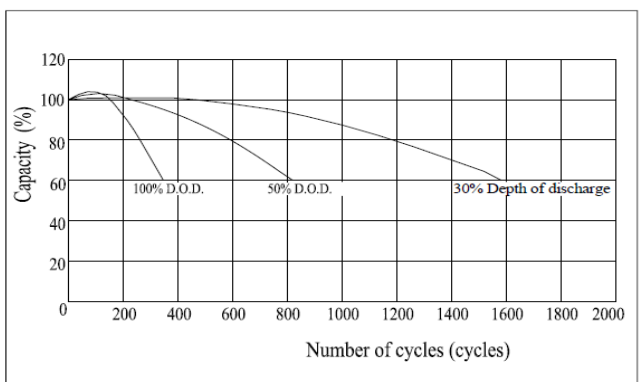
Self Discharge Characteristics (25°C (77°F))



Temperature Effects in Relation to Battery Capacity



Cycle Life Relation to Depth of Discharge



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