

Specifications

Nominal Voltage (V)		12	
Nominal Capacity (AH)		40	
Dimensions	Length	197 mm	7.76 inch
	Width	165 mm	6.5 inch
	Height	170 mm	6.69 inch
	Total Height	170 mm	6.69 inch
Approx. Weight		13.3 kgs	29.3 lbs
Standard Terminals		V4	
Case Material		ABS UL 94-HB	

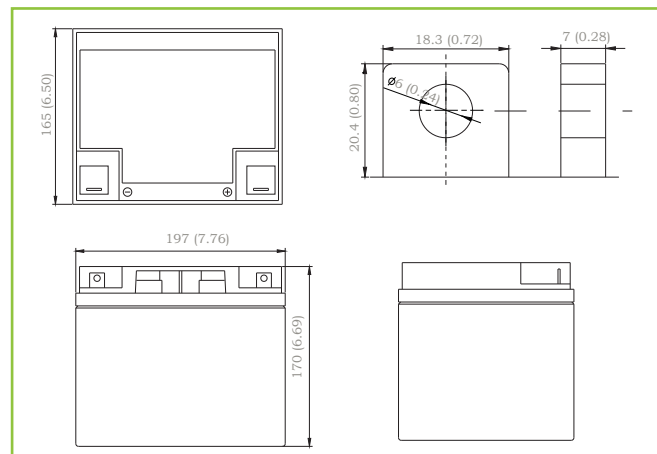
Characteristics

Capacity	20 hour rate	2.00 A	40.00 Ah
	10 hour rate	3.72 A	37.20 Ah
	5 hour rate	6.40 A	32.00 Ah
	1 hour rate	24.8 A	24.80 Ah
	15 Min Rate	70.4 A	17.60 Ah
Internal Resistance		8.5 mΩ	
Max. Discharge Current (5 sec)		400 A	
Constant Voltage Charge Method	Max. Charge Current	12 A	
	Standby Use	2.25 - 2.30 V /Cell	
	Cycle Use	2.40 - 2.50 V /Cell	
Operating Temperature Range	Discharge:	-15 ~ 50 °C (5 ~ 122 °F)	
	Charge:	-15 ~ 40 °C (5 ~ 104 °F)	
	Storage:	-15 ~ 40 °C (5 ~ 104 °F)	
Temperature coefficient	For standby use:	-3.3mV / °C /Cell	
	For cycle use:	-5.0mV / °C /Cell	
Self discharge 25°C (77°F)	After 3-month	91%	
	After 6-month	82%	
	After 12-month	64%	
Temperature dependency of Capacity	40 °C (104 °F)	102%	
	25 °C (77 °F)	100%	
	0 °C (32 °F)	85%	
	-15 °C (5 °F)	65%	

Discharge Voltage vs Discharge Current

Final Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current (A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Dimensions



LVL 40-12

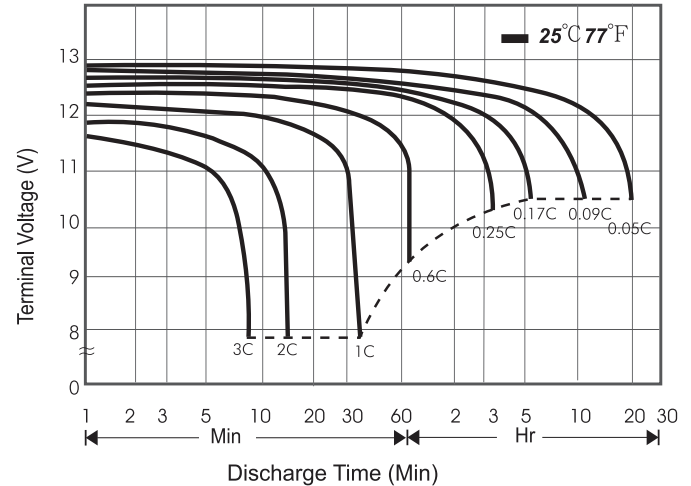


LVL 40-12 VRLA (valve-regulated lead acid) battery is designed for general purpose application with 10 years standby life at 25°C. This battery is rechargeable, highly-efficient, leak-proof and maintenance-free.

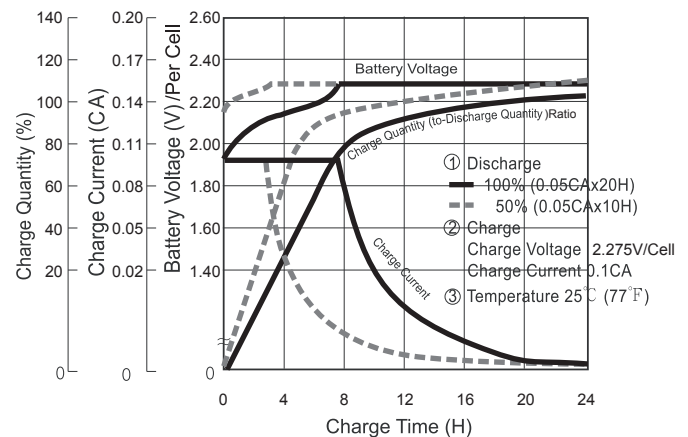
LivEn is ISO9001 and UL certified for quality assurance.



Terminal Voltage (V) and Discharge Time



Battery Voltage and Charge Time for Standby Use



Constant Current Discharge Characteristics Unit:A (25°C,77°F)

VpcEnd	5MIN	10MIN	15MIN	20MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	10HR	20HR
1.60	128	97.1	73.3	60.3	45.7	24.8	15.0	10.9	8.76	6.86	4.97	4.16	2.20
1.65	120	94.8	71.9	59.1	44.8	24.3	15.0	10.7	8.67	6.76	4.93	4.12	2.16
1.70	113	92.4	70.5	57.9	43.8	23.8	14.9	10.6	8.57	6.67	4.89	4.08	2.12
1.75	107	89.5	68.6	56.4	42.9	23.3	14.8	10.6	8.57	6.67	4.85	4.04	2.08
1.80	104	81.9	65.7	54.5	41.9	22.9	13.8	10.1	8.29	6.57	4.77	4.00	2.00
1.85	83.8	63.8	54.3	47.3	39.0	22.7	13.3	9.5	7.90	6.48	4.56	3.91	1.94
1.90	67.7	49.7	44.8	41.1	36.4	22.5	12.9	8.98	7.54	6.38	4.36	3.83	1.89

Constant Power Discharge Characteristics Unit:W (25°C,77°F)

VpcEnd	5MIN	10MIN	15MIN	20MIN	30MIN	60MIN	2HR	3HR	4HR	5HR	6HR	10HR	20HR
1.60	1420	1084	842	696	531	290	178	130	105	82.0	57.6	46.8	26.0
1.65	1344	1058	825	683	523	286	177	128	103	80.7	57.3	46.4	25.6
1.70	1268	1031	809	670	514	281	176	126	102	79.4	57.0	46.0	25.2
1.75	1186	1002	788	655	506	279	174	126	102	79.4	56.5	45.6	24.8
1.80	1156	825	753	631	492	269	163	120	99.0	78.2	55.2	45.2	24.0
1.85	810	630	578	507	421	260	153	110	91.4	75.1	53.3	44.1	23.0
1.90	567	482	444	407	360	252	144	102	84.4	72.2	51.5	43.0	22.1