

## Specifications

Nominal Voltage (V)		12	
Nominal Capacity (AH)		12.0	
Dimensions	Length	151 mm	5.94 inch
	Width	98 mm	3.86 inch
	Height	95 mm	3.74 inch
	Total Height	98 mm	3.86 inch
Approx. Weight		3.75 kgs	8.27 lbs
Standard Terminals Case Material		Faston Tab 250/187 ABS UL 94-HB	

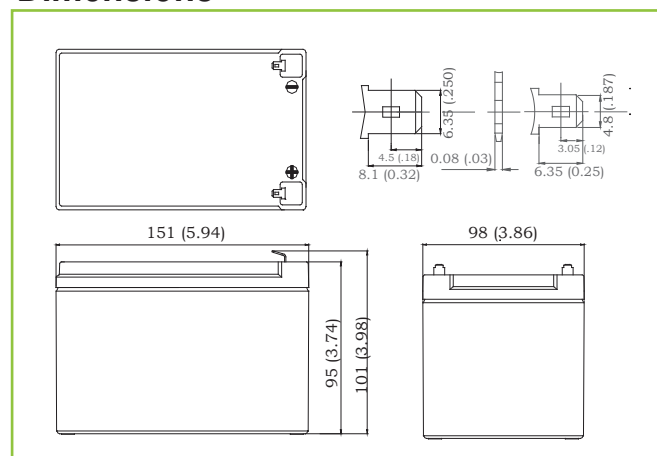
## Characteristics

Capacity	20 hour rate	0.60 A	12.0 Ah
	10 hour rate	1.15 A	11.5 Ah
	5 hour rate	2.05 A	10.3 Ah
	1 hour rate	8.55 A	8.55 Ah
	15 Min Rate	23.6 A	5.90 Ah
Internal Resistance		20 mΩ	
Max. Discharge Current ( 5 sec )		120 A	
Constant Voltage Charge Method	Max. Charge Current	3.6 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



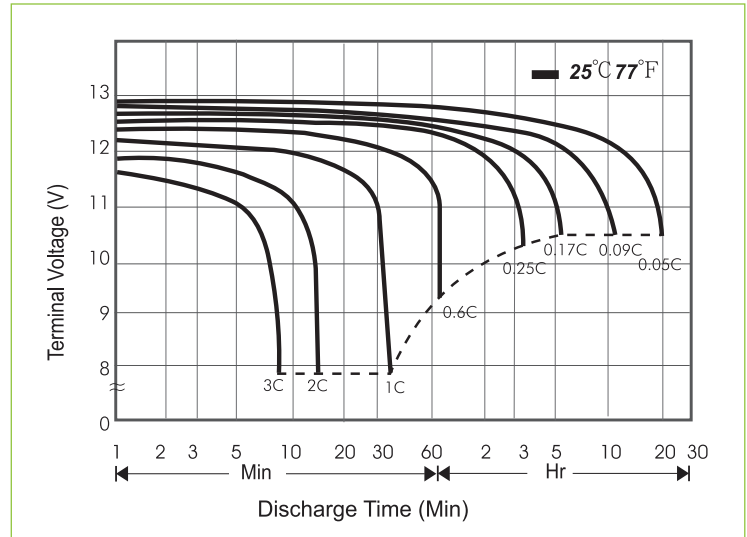
# LV 12-12

LV 12-12 VRLA (valve-regulated lead acid) battery is designed for general purpose application with 5 years standby life at 25°C. This battery is rechargeable, highly-efficient, leak-proof and maintenance-free.

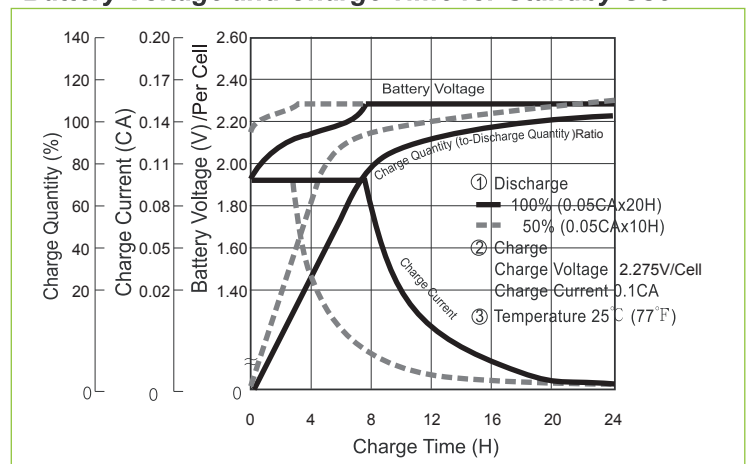
LivEn is ISO9001 and UL certified for quality assurance.



## 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	51.1	32.5	24.4	18.2	14.0	8.68	4.35	3.07	2.45	2.09	1.39	1.19	0.67
1.65	49.2	31.3	23.6	17.6	13.8	8.62	4.31	3.07	2.44	2.08	1.38	1.17	0.65
1.70	46.6	30.3	23.1	17.0	13.7	8.55	4.30	3.05	2.41	2.06	1.37	1.16	0.64
1.75	42.1	28.3	21.8	16.1	13.4	8.41	4.24	3.03	2.40	2.05	1.35	1.15	0.60
1.80	37.6	26.4	20.6	15.2	13.0	8.30	4.16	3.00	2.38	2.02	1.32	1.13	0.59
1.85	33.3	24.5	19.4	14.3	12.8	8.18	4.10	2.96	2.37	2.00	1.29	1.11	0.58

## 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	585	360	278	210	168	105	52.1	36.9	30.4	29.5	16.0	14.1	7.87
1.65	564	347	269	202	165	104	51.7	36.8	30.2	29.3	15.9	13.9	7.62
1.70	533	336	263	195	164	103	51.5	36.6	29.9	29.0	15.8	13.8	7.49
1.75	482	315	249	185	160	102	50.8	36.4	29.7	28.9	15.6	13.7	7.12
1.80	430	293	235	175	156	100	49.9	36.0	29.5	28.4	15.2	13.3	6.94
1.85	381	272	221	164	153	98.8	49.2	35.5	29.4	28.1	14.8	13.2	6.78