

LTX12-5.4

Valve-regulated lead-acid battery



HIGH RATE SERIES

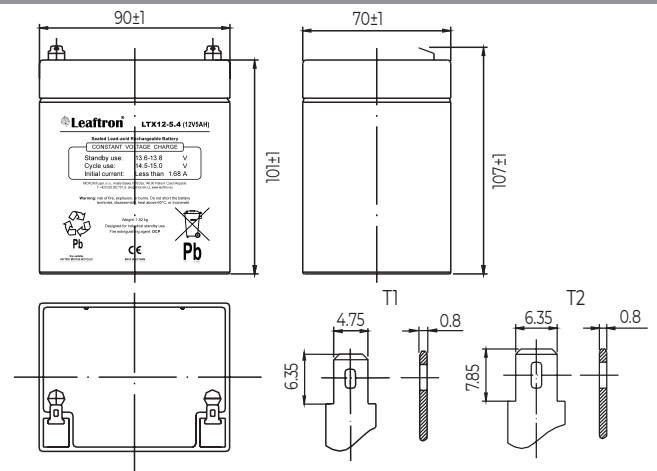
Characteristics

Nominal voltage	12V (6 cells per unit)	
Nominal power at 15 min. rate 1.67V/cell (25°C)	21W	
Capacity (25°C)	20 Hours rate/10.5V	5Ah
	5 Hours rate/10.5V	4.45Ah
Terminal type	T1/T2	
Torque	N/A	
Approx. internal resistance (25°C)	27.0 mΩ	
Dimensions	Length	90±1mm (3.54inch)
	Width	70±1mm (2.76inch)
	Height	101±1mm (3.98inch)
	Total height	107±1mm (4.21inch)
Design Life (stand-by)	JIS at 25°C	5 years
	Eurobat at 20°C	3-5 years
Weight	1.62kg (3.57lbs)±4%	
Nominal operating temperature	25±3°C (77°F±5)	
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage at 25°C	13.6V~13.8V	
Cyclic charging voltage at 25°C	14.5V~15.0V	
Temperature compensation	Float charge	-18 (mV/°C/Block)
	Cycle charge	-30 (mV/°C/Block)
Max. charging current (A)	1.68A	
Max. discharge current for 5 seconds	75A	
Self discharge rate (25°C)	≤3%/month	
Battery container ABS UL94-HB	V-0 optional	

Overview

Leaftron High Rate series batteries are specially designed for applications that require high power output. With their high-power density and low internal resistance, the HR series are the right choice for your most demanding applications.

Dimensions & Terminal Type (mm)



Construction

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS (V-0 opt.)	AGM	Sulfuric Acid	Rubber	Copper

Constant current discharge characteristics at 25°C

(Ampere/cell)

F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	25.14	15.44	11.33	9.06	6.20	4.37	3.58	1.84	1.31	1.05	0.90
1.67V/cell	23.92	14.77	10.92	8.69	6.00	4.23	3.49	1.82	1.29	1.04	0.89
1.70V/cell	23.37	14.33	10.61	8.52	5.89	4.15	3.43	1.81	1.29	1.04	0.89
1.75V/cell	22.38	13.78	10.30	8.23	5.74	4.05	3.36	1.78	1.28	1.03	0.89
1.80V/cell	21.06	13.01	9.79	7.79	5.53	3.90	3.26	1.74	1.24	1.00	0.86

Constant power discharge characteristics at 25°C

(Watts/cell)

F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	45.91	28.56	22.45	17.89	12.29	8.65	7.08	3.66	2.62	2.11	1.81
1.67V/cell	43.81	27.30	21.00	17.26	11.87	8.38	6.90	3.62	2.60	2.09	1.80
1.70V/cell	42.66	26.57	21.12	16.85	11.66	8.22	6.80	3.60	2.59	2.08	1.79
1.75V/cell	40.87	25.41	20.39	16.33	11.34	8.02	6.66	3.55	2.57	2.07	1.78
1.80V/cell	38.56	23.94	19.26	15.39	10.92	7.73	6.46	3.46	2.50	2.01	1.73