

# C·H·R·O·M·E

## BAT-LEADS-12V7AH-CHR (12V7.0AH /20HR)



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, Special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

### Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

### General Feature

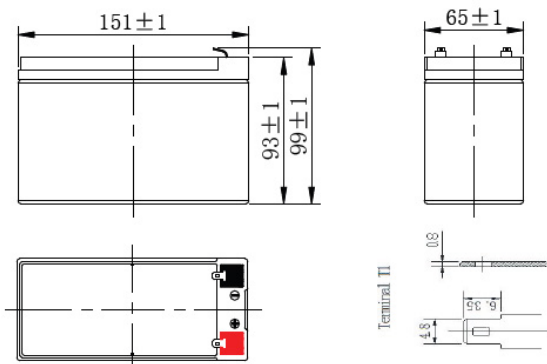
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or watering.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications
- Maintenance-free operation.
- Low self discharge.

### SPECIFICATION

Nominal voltage.....	12 V
Number of cell .....	6
Length(mm/inch) .....	151/5.95
Width(mm/inch) .....	65/2.56
Height(mm/inch) .....	94/3.70
Total Height(mm/inch) .....	100/3.94
Approx. Weight(kg/lbs) .....	1.8/3.97

### Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (0.35A, 10.5V)	7.0Ah
	10 hour rate (0.683A, 10.5V)	6.83Ah
	5 hour rate (1.16A, 10.5V)	5.8Ah
	1 hour rate (4.6A, 9.6V)	4.6Ah
Internal Resistance	Full charged Battery 77°F(25°C):28m	
Capacity affected by Temperature (10hourrate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(10°C)	85%
	5°F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current 77°F(25°C):40A (5S)		
Charge (Constant Voltage)	Float 13.5-13.8 V(-20mV/ °C)	
	Cycle:14.4-15.0V(-15mV/ °C) Max.Current 2.1A	



### Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	24.9	17.4	13.3	7.47	4.60	1.93	1.26	0.718	0.368
1.65V	23.6	16.6	12.6	7.17	4.52	1.87	1.23	0.705	0.359
1.70V	22.2	15.7	12.0	6.86	4.40	1.80	1.19	0.691	0.355
1.75V	20.8	14.8	11.3	6.52	4.22	1.73	1.16	0.683	0.350
1.80V	19.4	14.0	10.7	6.19	4.01	1.65	1.12	0.669	0.344

### Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	46.0	32.2	24.7	14.0	8.65	3.65	2.39	1.37	0.71
1.65V	43.5	30.6	23.3	13.3	8.44	3.51	2.32	1.34	0.69
1.70V	40.7	28.8	22.0	12.7	8.19	3.37	2.24	1.31	0.67
1.75V	37.9	26.9	20.7	12.0	7.80	3.21	2.16	1.28	0.66
1.80V	35.0	25.2	19.3	11.3	7.34	3.03	2.07	1.24	0.64

