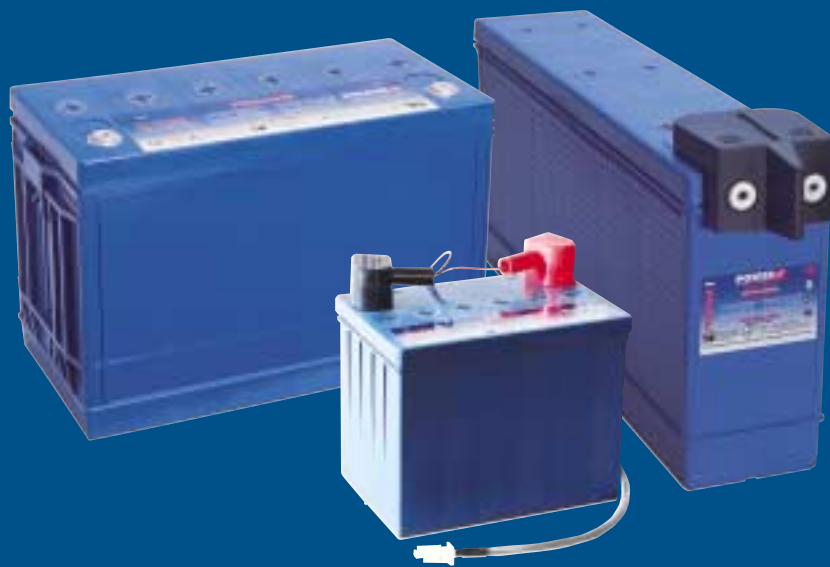


# TELECOM BATTERY SOLUTIONS



The most comprehensive range of VRLA batteries designed specifically for telecommunication applications



TL and CSL series

**POWER**   
Power for a World of Applications



- **Wireless \ PCS**
- **Customer Premises**
- **Distributed Power**
- **Microwave**
- **Outside Plant**
- **PBX systems**

## Operating specifications

• Operating temperature range:	-40°C/-40°F to 60°C/140°F
• Charging voltage / current:	2.27 to 2.30 volts per cell, constant voltage at a maximum current of C/4 amps.
• Temperature compensation:	Apply for temperature range of 0°C/32°F to 40°C/104°F. Subtract 3 mV/°C/cell or 1.7 mV/°F/cell, above 25°C/77°F. Add 3mV/°C/cell or 1.7 mV/°F/cell, below 25°C/77°F.
• Storage time from a fully charged condition:	6 months at 25°C/77°F. For each 9°C/15°F rise, reduce the storage time by half.

## Reliability - Quality - Long life

The Power TELECOM series of sealed batteries has been developed and refined since the early 1990's. The design is driven by the telecommunication market's demand for reliability, quality and long life. Our development team combines the market's demands with design optimization, precision component selection and state-of-the-art manufacturing processes to produce the most cost effective battery solution for today's telecommunication applications.

## Features and Benefits

- Ten year design life in telecom float service.
- A recognized component of U.L.
- Valve regulated lead acid battery (VRLA).
- Absorbed glass mat technology (AGM) with gas recombination greater than 99%.
- Operates at a low internal pressure.
- Never needs watering; minimal maintenance.
- Shock absorbent thick wall construction.
- Advanced lead tin calcium alloy, reduces grid corrosion and promotes long battery life.
- Flame-retardant polypropylene case and cover compliant with U.L.94 V-0 with an Oxygen Limiting Index of greater than 28%.
- Cold forged nonporous terminal bushings; eliminate post leakage.
- Thermally welded case to cover bond; eliminates both acid and electrical leaks.
- Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.
- Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L. 924.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- 100% recyclable materials.

## Options

- Terminal covers and custom inter-unit battery cables. (Terminal covers and inter-unit bussbars are standard on all CSL models)
- 4 + 10 volt models
- High temperature retaining sleeves
- Carrying handles for the TL-1295 and TL-12120

## Standards and Compliances

- UL Compliant
- NEBS Compliant
- EUROBAT, 10 year plus classification
- Tested in accordance with
  - BS6290 PART4, 1987
  - Bellcore, TR-NWT-000766
  - ANSI, TI: 330

ELECTRICAL DISCHARGE RATES														
Model number	End cell voltage	Amperes available per cell @ 77° F. (25°C) in hours												
		1	2	3	4	5	6	7	8	10	12	24	48	72
TL-1230 TL-1230SLC *	1.75	20.3	11.8	8.57	6.74	5.54	4.72	4.12	3.65	2.98	2.55	1.37	0.74	0.52
	1.80	20.0	11.7	8.49	6.62	5.45	4.66	4.07	3.62	2.97	2.52	1.36	0.72	0.49
	1.85	19.2	11.4	8.20	6.40	5.28	4.51	3.94	3.50	2.87	2.44	1.31	0.67	0.45
TL-1245 TL-1245SLC *	1.75	31.4	18.2	13.3	10.4	8.57	7.30	6.36	5.65	4.61	3.94	2.12	1.14	0.80
	1.80	30.9	18.1	13.1	10.2	8.43	7.20	6.29	5.59	4.59	3.90	2.10	1.11	0.76
	1.85	29.7	17.6	12.7	9.89	8.16	6.97	6.09	5.41	4.43	3.77	2.02	1.04	0.70
TL-1270	1.75	47.6	27.7	20.1	15.8	13.0	11.1	9.66	8.58	7.00	5.98	3.22	1.74	1.21
	1.80	46.9	27.5	19.9	15.5	12.8	10.9	9.55	8.48	6.96	5.92	3.18	1.68	1.15
	1.85	45.1	26.6	19.2	15.0	12.4	10.6	9.24	8.20	6.73	5.72	3.07	1.58	1.06
TL-1280 TL-1280SLC *	1.75	57.1	33.2	24.1	19.0	15.6	13.3	11.6	10.3	8.40	7.17	3.87	2.08	1.45
	1.80	56.3	32.9	23.9	18.6	15.4	13.1	11.5	10.2	8.35	7.11	3.82	2.02	1.38
	1.85	54.1	32.0	23.1	18.0	14.9	12.7	11.1	9.85	8.07	6.86	3.69	1.90	1.27
TL-1295	1.75	66.7	38.8	28.2	22.1	18.2	15.5	13.5	12.0	9.80	8.37	4.51	2.54	1.71
	1.80	65.7	38.4	27.9	21.7	17.9	15.3	13.4	11.9	9.75	8.29	4.46	2.35	1.63
	1.85	63.1	37.3	26.9	21.0	17.3	14.8	12.9	11.5	9.42	8.01	4.30	2.22	1.48
TL-12120	1.75	81.3	47.2	34.4	27.0	22.2	18.9	16.5	14.7	12.0	10.2	5.50	2.96	2.06
	1.80	80.1	46.9	34.0	26.5	21.9	18.6	16.3	14.5	11.9	10.1	5.40	2.29	1.96
	1.85	76.9	45.4	32.8	25.6	21.1	18.1	15.7	14.0	11.5	9.70	5.20	2.70	1.81
TL-6195	1.75	132	76.5	55.5	43.6	36.0	30.8	27.0	24.1	19.9	17.0	9.40	5.10	3.50
	1.80	126	73.9	53.4	41.8	34.5	29.6	25.9	23.1	19.1	16.3	8.90	4.80	3.30
	1.85	118	70.3	50.8	39.9	33.0	28.3	24.8	22.2	18.2	15.5	8.40	4.50	3.00
TL-2480	1.75	365	209	148	113	91.0	77.0	67.1	60.0	49.8	42.7	23.5	12.8	8.90
	1.80	343	203	144	110	88.6	75.1	65.4	58.4	48.6	41.7	23.1	12.5	8.70
	1.85	317	193	138	106	85.0	71.4	62.2	55.5	45.9	39.3	21.6	11.7	8.20
CSL-1280 FRONT ACCESS	1.75	57.1	33.2	24.1	19.0	15.6	13.3	11.6	10.3	8.40	7.17	3.87	2.08	1.45
	1.80	56.3	32.9	23.9	18.6	14.4	13.1	11.5	10.2	8.35	7.11	3.82	2.02	1.38
	1.85	54.1	32.0	23.1	18.0	14.9	12.7	11.1	9.85	8.07	6.86	3.68	1.90	1.27
CSL-12100 FRONT ACCESS	1.75	68.7	39.8	28.9	22.7	18.7	16.0	14.0	12.5	9.89	8.45	4.65	2.65	1.79
	1.80	65.5	38.5	27.8	21.7	17.9	15.3	13.5	11.6	9.56	8.17	4.49	2.48	1.70
	1.85	61.2	36.6	26.4	20.8	17.1	14.7	12.8	11.0	9.16	7.83	7.31	2.32	1.57
CSL-12170 FRONT ACCESS	1.75	118	68.1	48.8	38.4	31.8	27.2	23.9	21.3	17.4	14.8	7.60	3.92	2.58
	1.80	115	67.0	47.9	37.3	30.8	26.3	23.0	20.5	16.7	14.2	7.54	3.89	2.53
	1.85	110	64.0	45.7	35.8	29.6	25.4	21.1	19.7	16.1	13.7	7.25	3.77	2.48
CSL-12200 FRONT ACCESS	1.75	135	78.0	59.0	45.0	37.0	31.0	26.8	25.0	20.2	16.9	9.29	4.80	3.23
	1.80	128	74.0	56.0	43.5	35.4	30.0	26.0	24.1	19.4	16.3	8.80	4.60	3.10
	1.85	121	70.0	54.0	41.5	33.6	29.0	24.8	23.2	18.6	15.7	8.50	4.40	2.97

GENERAL SPECIFICATIONS								
Battery Model	Volts Nom.	AH @ 8hrs	Dimensions in / mm			Weight lbs / kgs	Terminal	
			L	W	H		Type	Location
TL-1230	12	29	7.7 / 196	5.2 / 132	7.2 / 183	26.7 / 12.0	"L" Type Lead	Top
TL-1245	12	45	8.6 / 219	5.4 / 137	8.2 / 208	35.3 / 16.0	Copper Insert	Top
TL-1270	12	68	10.2 / 259	6.7 / 169	9.0 / 229	60.6 / 27.5	Copper Insert	Top
TL-1280	12	82	12.0 / 305	6.7 / 169	9.1 / 231	71.9 / 32.7	Copper Insert	Top
TL-1295	12	96	13.5 / 343	6.8 / 173	8.5 / 215	80.6 / 36.7	Copper Insert	Top
TL-12120	12	118	13.5 / 343	6.8 / 173	10.8 / 273	99.4 / 45.2	Copper Insert	Top
TL-6195	6	193	10.7 / 272	7.4 / 187	10.9 / 278	81.5 / 37.0	Copper Insert	Top
TL-2480	2	480	10.7 / 272	7.4 / 187	10.9 / 278	87.0 / 39.5	Copper Insert	Top
CSL-1280	12	82	21.0 / 534	4.3 / 109	9.6 / 245	74.0 / 33.6	Copper Insert	Front
CSL-12100	12	100	21.0 / 534	4.3 / 109	9.6 / 245	84.0 / 38.2	Copper Insert	Front
CSL-12170	12	170	21.1 / 536	8.9 / 226	10.1 / 256	152 / 69.0	Copper Insert	Front

\* VERSION THAT INCLUDES A 26" LONG CABLE HARNESS AND AMP CONNECTOR



**MISSION:** The Power Battery mission is to provide a reliable and competitive product backed up with the necessary technical expertise to meet the requirements of an increasingly demanding market place.

**PRODUCTS:** Power Battery is a manufacturing driven company. Our product development team combines market demands together with our engineering and manufacturing expertise to build a quality product and to do so in a fast and cost effective manner. The end result is a product that provides reliability and long life at an affordable price to the user.

**LOCATIONS:** Power Battery has three major corporate locations around the world. One in Paterson, New Jersey which covers the U.S.A., Latin America and the Pacific Rim. A second in Iberville, Quebec to cover the Canadian market and a third in Romsey, England which covers the European, Middle East and African markets. Our Corporate headquarters, R&D, manufacturing and USA distribution center are located in Paterson. The Iberville facility is a high-tech automated manufacturing center, and has the distinction of being the only battery plant in Canada manufacturing V.R.L.A. batteries. The UK sales office also has a stocking warehouse with systems capability and service. Power Battery now has sales offices in Milan, Italy and Hong Kong with major distributors throughout South America, Europe, Africa and Asia. Visit our website at [www.powerbattery.com](http://www.powerbattery.com) to find the distributor closest to you.

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