



VZV-BT-LA-12V-110A-Y-T

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 water adding.
- 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 12V

Number of cell 6

Length(mm/inch) 328/12.9

Width(mm/inch) 171/6.72

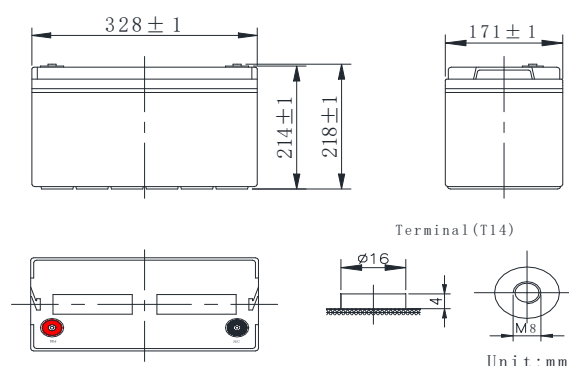
Height(mm/inch) 214/8.41

Total Height(mm/inch) 218/8.58

Approx. Weight(kg/lbs) 30/66.14

Performance Characteristics

Capacity 77° F (25°C)	20 hour rate (5.75A, 10.8V)	115Ah
	10 hour rate (11A, 10.8V)	110Ah
	5 hour rate (18.7A, 10.5V)	93.5Ah
	1 hour rate (66.0A, 9.6V)	66Ah
Internal Resistance	Full charged Battery 77° F (25°C) : 6mΩ	
Capacity affected by Temperature (10 hour rate)	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 12 month storage	60%
Max. discharge current 77°F (25°C): 950A (5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V / 77° F (25°C)	
	Cycle: 14.4~14.7 V / 77° F (25°C) Max. Current: 27.5A	



Discharge Constant Current (Amperes at 77° F 25°C)

End Point Volts/Cell	5min	10min	15min	30min	1 h	2 h	3h	4h	5 h	6 h	8h	10h	20 h
1.60V	405.95	247.25	230.23	121.90	68.31	44.85	33.70	26.91	19.32	18.75	14.61	11.006	6.440
1.65V	391.00	246.10	226.67	119.60	67.51	43.70	32.66	26.11	18.98	18.40	14.49	10.971	6.325
1.70V	385.25	243.80	225.06	117.30	67.16	41.98	31.40	25.30	18.75	17.94	14.26	10.948	6.325
1.75 V	386.4	241.50	210.34	115.00	66.70	40.83	30.48	24.61	18.40	17.60	14.15	10.925	5.865
1.80V	384.1	239.20	209.42	112.70	64.40	38.87	29.90	24.04	18.17	17.14	13.80	11.006	5.750
1.85V	379.50	235.75	203.67	110.40	63.25	36.80	27.83	23.00	17.83	15.99	13.11	10.350	5.635

Discharge Constant Power (Watts 77° F 25°C)

End Point Volts/Cell	5min	10min	15min	30min	1 h	2 h	3h	4h	5 h	6 h	8h	10h	20 h
1.60V	594.72	465.82	388.86	221.86	128.08	85.71	62.00	47.90	38.45	33.93	29.06	24.102	12.816
1.65V	594.32	465.38	388.28	223.05	129.27	84.87	61.07	47.51	37.76	33.49	28.55	23.697	12.587
1.70V	594.06	464.93	387.77	222.28	130.29	84.37	60.28	46.55	37.21	32.65	28.09	23.429	11.954
1.75V	592.74	464.40	386.60	223.10	130.73	83.28	58.51	45.77	36.06	31.67	27.87	22.615	11.554
1.80V	592.28	460.22	384.28	221.46	125.58	80.85	57.41	44.22	35.61	30.50	27.32	22.121	10.753
1.85V	590.12	452.64	374.74	227.42	121.44	79.12	53.43	41.86	34.58	28.13	25.83	20.079	10.087

