



VZV-BT-LA-6V-4. 5A-Y-T

UPG Series is GEL battery which is manufactured with AGM separator and colloidal Silicon. Gel battery are featured with low self-discharge, strong ability to recover from deep discharging, excellent cycle life and performance at cold ambient temperatures than conventional VRLA

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

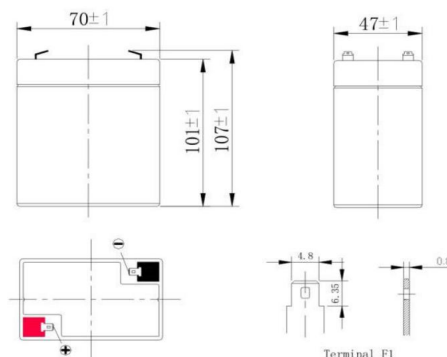
- Micro millimeter SiO₂ and H₂ SO₄ technology for Efficient gas recombination of up to 99% and Freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer 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 6V
Number of cell 3
Length(mm/inch) 70/2.76
Width(mm/inch) 47/1.85
Height(mm/inch) 101/3.98
Total Height(mm/inch) 107/4.21
Approx. Weight(kg/lbs) 0.72/1.59

Performance Characteristics

Capacity 77° F (25°C)	20 hour rate (0.225A, 5.4V)	4.5Ah
	10 hour rate (0.428A, 5.25V)	4.28Ah
	5 hour rate (0.765A, 5.25V)	3.83Ah
	1 hour rate (2.7A, 4.8V)	2.7Ah
Internal Resistance	Full charged Battery 77° F (25°C): 30mΩ	
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): 65A (5S)		
Charge (Constant Voltage)	Float: 6.8~6.9 V/77° F (25°C)	
	Cycle: 7.2~7.35 V/77° F (25°C) Max. Current: 1.35A	



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

End Point	5min	10min	15min	30min	1 h	2 h	3h	4h	5 h	6 h	8h	10h	20 h
1.60V	15.885	9.68	9.01	4.77	2.67	1.76	1.32	1.05	0.76	0.73	0.57	0.431	0.252
1.65V	15.30	9.63	8.87	4.68	2.64	1.71	1.28	1.02	0.74	0.72	0.57	0.429	0.248
1.70V	15.08	9.54	8.81	4.59	2.63	1.64	1.23	0.99	0.73	0.70	0.56	0.428	0.248
1.75 V	15.12	9.45	8.23	4.50	2.61	1.60	1.19	0.96	0.72	0.69	0.55	0.428	0.230
1.80V	15.03	9.36	8.19	4.41	2.52	1.52	1.17	0.94	0.71	0.67	0.54	0.431	0.225
1.85V	14.85	9.23	7.97	4.32	2.48	1.44	1.09	0.90	0.70	0.63	0.51	0.405	0.221

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

End Point	5min	10min	15min	30min	1 h	2 h	3h	4h	5 h	6 h	8h	10h	20 h
1.60V	23.27	18.23	15.22	8.68	5.01	3.35	2.43	1.87	1.50	1.33	1.14	0.943	0.501
1.65V	23.26	18.21	15.19	8.73	5.06	3.32	2.39	1.86	1.48	1.31	1.12	0.927	0.493
1.70V	23.25	18.19	15.17	8.70	5.10	3.30	2.36	1.82	1.46	1.28	1.10	0.917	0.468
1.75V	23.19	18.17	15.13	8.73	5.12	3.26	2.29	1.79	1.41	1.24	1.09	0.885	0.452
1.80V	23.18	18.01	15.04	8.67	4.91	3.16	2.25	1.73	1.39	1.19	1.07	0.866	0.421
1.85V	23.09	17.71	14.66	8.90	4.75	3.10	2.09	1.64	1.35	1.10	1.01	0.786	0.395

