

Gel Batteries

VRLA-URZ Series

General Features

1. Long time discharge
2. Suitable for space and storage electric power use
3. Special plate design, long cycle lifetime
4. Using special lead-calcium alloy to boost up the grid anti-corrosive performance and extend the battery using lifetime
5. Using special separator to boost up the battery performance inside
6. High thermal capacity, reduce the risk of thermal out of control and drying hard, can be used in bad environment
7. High gas recombined reaction efficiency
8. Little water losing, no electrolyte stratification phenomenon
9. Long storage time
10. Good deep discharge resilience performance
11. Using gas silicon dioxide, small granule degree, bigger than surface area

Typical Applications

1) Cycle applications

Golf trolleys Garden equipments Portable equipments Wheel chairs Solar and wind mill units
 Medical equipments Flash units also for mining (head flash) Portable video/radio Traffic lights Street signs Boats or buoys Cottage camping SOS
 pillars Toys and hobby applications
 Portable equipments for communication, testing, distance measuring ...etc. Pump system

2) Stand By applications

Telecommunication backup Power plants Burglar alarms Medical equipments (stationary and portable i.e. X- ray) Computer back-up (high
 power) Communication systems Fire alarm systems Transmitter systems
 Cash register systems Emergency lights signal systems Telephone systems Clocks systems Uninterrupted
 power supplies Elevators emergency power supply (skyscrapers) Solar applications Mobile stations Airport / runway emergency illumination
 Emergency power supply for hospitals Radar and satellite stations

Specifications

Model	Nominal	Rated Capacity (AH)				Approx Dimension								Approx Weight		Terminal type
	Voltage	20HR	10HR	5HR	1HR	Length		Width		Height		Total Height		kg	lbs	
	(V)	1.80	1.80	1.75	1.60	mm	in.	mm	in.	mm	in.	mm	in.			
	V/cell	V/cell	V/cell	V/cell												
URG12-17	12	17	15.5	13.6	9.35	181.5	7.15	77	3.03	168	6.59	168	6.59	5.8	12.8	T12
URG12-24	12	24	22.3	19.2	13.2	175	6.89	166.5	6.56	125	4.92	125	4.92	8.5	18.7	T12
URG12-26	12	26	24.2	20.8	14.3	175	6.89	166.5	6.56	125	4.92	125	4.92	8.9	19.6	T12
URG12-31	12	30	27.4	24	16.5	195	7.68	130	5.12	164	6.46	180	7.09	10.65	23.5	T5
URG12-38	12	38	35.3	30.4	20.9	197	7.76	165	6.5	170	6.69	170	6.69	13.7	30.2	T6
URG12-45	12	45	40	36	24.7	257	10.12	132	5.2	200	7.87	200	7.87	15.5	34.2	T6
URG12-50	12	50	46.5	40	27.5	229	9.02	138	5.43	205	8.07	211	8.31	16.7	36.8	T6
URG12-60	12	60	55.8	48	33	325	12.8	167	6.57	174	6.85	174	6.85	21.8	48.1	T6
URG12-65	12	65	60.5	52	35.8	325	12.8	167	6.57	178	7.01	178	7.01	23.5	51.8	T6
URG12-70H	12	70	65.1	56	38.5	259	10.2	168	6.61	208	8.19	214	8.43	23	50.7	T6

URG12-85	12	85	79.1	68	46.8	305	12.01	168	6.61	207	8.15	213	8.39	28	61.7	T6
URG12-100	12	96	90	80	55	330	12.99	173	6.81	212	8.35	220	8.66	31	68.4	T11
URG12-110	12	110	102.3	88	60.5	410	16.14	177	6.97	225	8.86	225	8.86	36	79.4	T11
URG12-125	12	130	120	104	71.5	344	13.54	171	6.73	274	10.79	280	11.02	47	103.6	T11
URG12-140	12	135	125	108	74.3	485	19.09	170	6.69	240	9.45	240	9.45	44.2	97.5	T11
URG12-200	12	200	185	160	110	522	20.55	240	9.45	218	8.58	224	8.81	62.9	138.7	T11
URG6-200	6	200	185	160	110	322	12.68	178	7.01	228	8.98	234	9.21	31.5	69.5	T11
URG2-65	2	65	60	51.6	35.2	170	6.69	72	2.83	205	8.07	212	8.35	5.2	11.5	T6
URG2-75	2	80	75	64.5	44	170	6.69	72	2.83	205	8.07	212	8.35	5.6	12.4	T6
URG2-100	2	96	90	77.4	52.8	170	6.69	72	2.83	205	8.07	212	8.35	6.2	13.7	T6
URG2-130	2	128	120	103.2	70.4	170	6.69	98	3.86	205	8.07	212	8.35	8	17.6	T7
URG2-150	2	144	135	116.1	79.2	170	6.69	98	3.86	205	8.07	212	8.35	8.8	19.4	T7
URG2-200	2	213.3	200	172	117.3	170	6.69	110	4.33	328	12.91	350	13.78	13.5	29.8	T11
URG2-300	2	320	300	258	176	170	6.69	150	5.91	328	12.91	350	13.78	19	41.9	T11
URG2-400	2	426.7	400	344	234.7	210	8.27	175	6.89	330	12.99	350	13.78	28	61.7	T11

Model	Nominal Voltage (V)	Rated Capacity (AH)				Approx Dimension								Approx Weight		Terminal type
		20HR	10HR	5HR	1HR	Length		Width		Height		Total Height		kg	lbs	
	1.80 V/cell	1.80 V/cell	1.75 V/cell	1.60 V/cell	mm	in.	mm	in.	mm	in.	mm	in.				
URG2-500	2	533.4	500	430	293.3	240	9.45	170	6.69	330	12.99	350	13.78	30.9	68.1	T11
URG2-600	2	640	600	516	352	300	11.81	175	6.89	330	12.99	350	13.78	36.5	80.5	T11
URG2-800	2	853.4	800	688	469.3	410	16.14	175	6.89	330	12.99	351	13.82	55.5	122.4	T11
URG2-1000	2	1066.7	1000	860	586.7	475	18.7	173	6.81	328	12.91	350	13.78	62	136.7	T11
URG2-1500	2	1600.1	1500	1290	880	403	15.87	354	13.94	339	13.35	349	13.74	99	218.3	T11
URG2-2000	2	2133.4	2000	1720	1173	490	19.29	350	13.78	339	13.35	349	13.74	126.5	278.9	T11
URG2-3000	2	3200.1	3000	2580	1760	709	27.91	350	13.78	337	13.27	349	13.74	188.5	415.6	T11

VRLA – URZZ Series

General Features

1. Specifically ideal for 19 inch or 23 inch power cabinets
2. Front terminals make the installation, maintenance and supervision easy
3. Shield designs protect terminals from short circuit and show good appearance
4. Unique vent valve design: reduce water losing and prevent air/spark going inside
5. Thick plates, special formula of paste and plate making process for a long service life
6. ABS material: increase the strength of battery container (Flame-retardant ABS is optional)
7. Long time discharge
8. Suitable for space and storage electric power use
9. Special plate design, long cycle lifetime
10. Using special lead-calcium alloy to boost up the grid anti-corrosive performance and extend the battery using lifetime
11. Using special separator to boost up the battery performance inside
12. High thermal capacity, reduce the risk of thermal out of control and drying hard, can be used in bad environment

13. High gas recombined reaction efficiency
14. Little water losing, no electrolyte stratification phenomenon
15. Long storage time
16. Good deep discharge resilience performance
17. Using gas silicon dioxide, small granule degree, bigger than surface area

Typical Applications

1. For standard 19 inch or 23 inch power cabinets
2. Network connection equipment of communication system
3. Power system of special network or local area network
4. UPS, standby power supply
5. Power station systems
6. Marine systems

Specifications

Model	Nominal	Rated Capacity (AH)				Approx Dimension								Approx Weight		Terminal type
	Voltage	20HR	10HR	5HR	1HR	Length		Width		Height		Total Height		kg	lbs	
	(V)	1.80	1.80	1.75	1.60	mm	in.	mm	in.	mm	in.	mm	in.			
	V/cell	V/cell	V/cell	V/cell												
URFG12-70	12	70	65.8	57.8	40.3	564	22.2	114	4.49	187	7.36	187	7.36	26.5	58.4	T6
URFG12-100	12	90	85	74.5	49.1	508	20	110	4.33	238.5	9.39	238.5	9.39	33.5	73.9	T13
URFG12-100L	12	100	95	82.7	54.5	560	22.05	110	4.33	233	9.17	233	9.17	36.0	79.4	T13
URFG12-100H	12	96	90	79.2	52.2	394	15.51	110	4.33	285	11.22	285	11.22	35.8	78.9	T6
URFG12-150	12	144	135	118.8	78.3	551	21.69	110	4.33	287	11.3	287	11.3	47.4	104.5	T6
URFG12-150L	12	144	135	118.8	78.3	560	22	110	4.33	280	11.02	280	11.02	45.5	100.3	T13
URFG12-180	12	158	150	132	87.0	560	22	126	4.96	280	11.02	280	11.02	54.5	120.2	T13

Tubular – URT Series

General Features

1. Completely sealing throughout the batteries life.
2. Service life up to 18-20 years in continuous float operation down to approx 80% capacity.
3. Gel electrolyte.
4. Low gassing thanks to antimony-free alloy and internal oxygen recombination.
5. Minimum space required and room requirements are minimal e.g. no washing facilities needed, ventilation requirements are minimal.
6. Easy to move and handle.
7. Easy install using cable connectors with insulated terminal covers.
8. Ready for immediate use without further commissioning work.
9. Can be supplied as a standard vertical installation or by special request, for a horizontal installation.
10. Very low self-discharge <50% of rated capacity in 2 years at 20 °C ambient temperature.
11. High cyclic ability over 400 cycles when discharged at 10 hour rate to an end voltage of 1.8Volt/cell at 20 .
12. Deep discharge protected, a load can be connected to the battery for up to 4 weeks.
13. No internal short circuits possible due to the gel structure.
14. No acid stratification, so noequalizing charge necessary.

Typical Applications

1. Telecommunications

2. Radio and cellular telephone relay stations
3. Emergency lighting systems
4. Power stations, Conventional power stations, alternative power (solar, wind)
5. Large UPS and computer back-up
6. Railway signalling
7. Maritime standby power on ships and ashore
8. Process and control engineering
9. Standby power
10. Buoy lighting

Specifications

Model Number	Nominal Voltage(V)	Rated Capacity C10 (Ah)	Dimension (mm/in) Approx								Weight	
			Length		Width		Height		Total Height			
			mm	in	mm	in	mm	in	mm	in	Kg	lbs
4PzOV200	2	200	103	4.06	206	8.11	355	14	390	15.4	18	39.7
5PzOV250	2	250	124	4.88	206	8.11	355	14	390	15.4	22	48.5
6PzOV300	2	300	145	5.71	206	8.11	355	14	390	15.4	26	57.3
5PzOV350	2	350	124	4.88	206	8.11	471	18.5	506	19.9	29	63.9
6PzOV420	2	420	145	5.71	206	8.11	471	18.5	506	19.9	34	75
7PzOV490	2	490	166	6.54	206	8.11	471	18.5	506	19.9	39	86
6PzOV600	2	600	145	5.71	206	8.11	646	25.4	681	26.8	46	101.4
8PzOV800	2	800	191	7.52	210	8.27	646	25.4	681	26.8	63	138.9
10PzOV1000	2	1000	233	9.17	210	8.27	646	25.4	681	26.8	78.5	173
10PzOV1000V	2	1000	233	9.17	210	8.27	646	25.4	681	26.8	78.5	173
12PzOV1200	2	1200	275	10.83	210	8.27	646	25.4	681	26.8	93	205.1
12PzOV1500	2	1500	275	10.83	210	8.27	796	31.3	831	32.7	115	253.6
12PzOV1500V	2	1500	275	10.8	210	8.27	796	31.3	831	32.7	115	254
16PzOV2000	2	2000	399	15.71	210	8.27	772	30.4	807	31.8	155	341.8
20PzOV2500	2	2500	487	19.17	212	8.35	772	30.4	807	31.8	196	432.2
24PzOV3000	2	3000	576	22.68	212	8.35	772	30.4	807	31.8	232	511.6

Deep Cycle Gel

General Features

1. Long time discharge
2. Suitable for space and storage electric power use
3. Special plate design, long cycle lifetime
4. Using special lead-calcium alloy to boost up the grid anti-corrosive performance and extend the battery using lifetime
5. Using special separator to boost up the battery performance inside
6. High thermal capacity, reduce the risk of thermal out of control and drying hard, can be used in bad environment
7. High gas recombined reaction efficiency
8. Little water losing, no electrolyte stratification phenomenon
9. Long storage time
10. Good deep discharge resilience performance
11. Using gas silicon dioxide, small granule degree, bigger than surface area

Typical Applications

1. Railway and marine systems
2. Electric tools
3. Vehicle in place of walking
4. Lawn mowers
5. Golf trolleys and golf cart
6. Electric toys
7. Portable power
8. Wheelchairs
9. Medical equipments

Specifications

Model	Nominal	Rated Capacity (AH)				Approx Dimension						Total Height		Approx Weight		Terminal type
	Voltage	20HR	10HR	5HR	1HR	Length		Width		Height		mm	in.	kg	lbs	
	(V)	1.80	1.80	1.75	1.60	mm	in.	mm	in.	mm	in.					
	V/cell	V/cell	V/cell	V/cell												
URCG12-30	12	30	27.6	24.25	17.8	195	7.68	130	5.12	164	6.46	180	7.09	10.7	23.59	T5/T6
URCG12-40	12	38	35	30.7	22.5	197	7.76	165	6.5	170	6.69	170	6.69	13.5	29.77	T6
URCG12-45	12	45	41.5	36.35	26.7	257	10.12	132	5.20	200	7.87	200	7.87	16.2	35.72	T6
URCG12-50	12	50	46.1	40.45	29.7	229	9.02	138	5.43	205	8.07	211	8.31	17.6	38.8	T6
URCG12-60	12	60	55.4	48.55	35.6	259	10.2	168	6.61	190	7.48	190	7.48	19.7	43.4	T6
URCG12-70	12	70	64.6	56.5	41.5	259	10.2	168	6.61	208	8.19	230	9.05	25	55.1	T14