

Standard Battery Series : VT Type

■ Voltage : 2V, 4V, 6V, 8V, 12V, 18V, 24V, 36V ■ Capacity : 0.3AH to 28AH
■ Designed floating service life : 10 Years at 20℃/68oF to 25℃/77°F

1.4 Exceptional Deep Discharge Recovery

FirstPower Korea batteries have exceptional deep discharge recovery and charge acceptance, even after deep or prolonged discharge.

1.5 Low Self-discharge

Because of the use of lead calcium grids alloy and highly pure materials. FirstPower Korea VRLA battery can be stored long periods of time without recharge. The rate of FirstPower Korea VRLA battery self-discharge on open circuit is less than 2% per month at 20oC/68 oC .

1.6 Long Service Life

The FirstPower Korea VRLA battery has long life in standby or cyclic service.

1.7 Solid Copper Terminals

Ensures the highest current carrying capability.

1.8 Computer-aided Design and Manufacturing

Ensures quality products through control of processes and standards.

1.9 UL and CE Recognized.

UL approval, file No. MH28204
CE approval, file No. G2M20201-0102-E-16

Applications

- Telecommunication equipments
 - Electronic instruments
 - Alarm and security systems
 - Emergency lighting
 - Cable Television
 - Computers
 - Electronic cash registers
 - Geophysical equipment
 - Marine equipment
- Medical equipment
 - Power tools
 - Toys
 - Portable cine and video lights
 - Solar power systems
 - Wind power systems
 - Television and video recorders
 - Vending machine
 - Uninterruptible power supplies



Model	Nominal Voltage (V)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT2003	2	0.3	80	17.5	0.69	6.5	0.26	68	2.68	68	2.68	Tab		0.02
VT2005	2	0.5	60	17.5	0.69	8.5	0.33	68	2.68	68	2.68	Tab		0.03
VT2045	2	4.5	6	46	1.81	25	0.98	100	3.94	106	4.17	T1	G	0.27
VT205	2	5	4											0.30
VT206	2	6	6	51	2.01	33	1.3	99	3.9	105	4.13	T1	G	0.34
VT207	2	7	5											0.38
VT215	2	15	3.5	70	2.76	47	1.85	101	3.98	107	4.21	T1	A	0.80
VT4005	4	0.4	130	39	1.54	14	0.55	50	1.97	50	1.97	Tab	G	0.07
VT4008	4	0.8	110	35	1.38	22	0.87	64	2.52	71	2.8		E	0.10
VT402	4	2	27	45	1.77	33.5	1.32	75	2.95	81	3.19	T1	C	0.26
VT403	4	3	18	66	2.6	33.5	1.32	75	2.95	81	3.19	T1	C	0.38
VT4032	4	3.2	14	90	3.54	34	1.34	60	2.36	66	2.6	T1	C	0.42
VT4034	4	3.4	13											0.44
VT404	4	3.3	25	32	1.26	32	1.26	135	5.31	146	5.75	T1	C	0.35
VT4045	4	4.5	17	48	1.89	48	1.89	102	4.02	108	4.25	T1	D	0.50
VT4045A	4	4.5	15	48	1.89	52	2.05	94	3.7	99	3.9	T1	C	0.55
VT410	4	10	8	102	4.02	44	1.73	95	3.74	101	3.98	T2/T1	C	1.05
VT420	4	20	4.5	149	5.87	43	1.69	154	6.06	165	6.5	T3	D	2.22
VT6005	6	0.4	150	57	2.24	14	0.55	51	2.01	51	2.01	plug	G	0.10
VT601	6	1	60	51	2.01	42	1.65	51	2.01	57	2.24	T1	A	0.25
VT6012	6	1.2	52	97	3.82	24	0.94	52	2.05	58	2.28	T1	C	0.28
VT6023	6	2	25	43	1.69	37	1.46	76	2.99	76	2.99	Tab	L	0.34
VT6028	6	2.8	32	66	2.6	33	1.3	97	3.82	104	4.09	T1	A	0.49
VT6028A	6	2.8	32	66	2.6	33	1.3	100	3.94	106	4.17	T1	A/C	0.49
VT6032	6	3.2	28	134	5.28	35	1.38	61	2.4	67	2.64	T1	C	0.60
VT6034	6	3.4	25											0.64
VT6032A	6	3.2	28	67	2.64	34	1.34	118	4.65	124	4.88	T1	A/C	0.61
VT6032B	6	3.2	28	125	4.92	33	1.3	61	2.4	67	2.64	T1	C	0.61
VT6035	6	3.5	18	194	7.64	25	0.98	50	1.97	56	2.2	T1	C	0.60
VT604	6	4	30	70	2.76	47	1.85	101	3.98	107	4.21	T1	A	0.68
VT6045	6	4.5	25											0.72
VT605	6	5	15											0.80
VT606	6	6	12											0.90
VT604A	6	4	30	70	2.76	47	1.85	101	3.98	106	4.17	Tab	A	0.70
VT6045A	6	4.5	25											0.73
VT604B	6	4	30	70	2.76	47	1.85	102.5	4.04	103	4.06	T1	A	0.70
VT6045B	6	4.5	25											0.73
VT604K	6	4	30	70	2.76	47	1.85	98	3.86	104	4.09	T1	A	0.70
VT6045K	6	4.5	25											0.73
VT604WA	6	3.6	55	39	1.54	39	1.54	150	5.91	150	5.91	plug		0.62
VT604WB	6	4	50	194	7.64	25	0.98	62	2.44	62	2.44	plug	—	0.69
VT6049	6	4.9	40	242	9.53	35	1.38	47	1.85	47	1.85	plug	N	0.85
VT605A	6	5	21	170	6.69	35	1.38	70	2.76	76	2.99	T1	C	0.88
VT606S	6	6	18	85	3.35	48	1.89	100	3.94	106	4.17	T1	A	1.0
VT6065	6	6.5	17	151	5.94	34	1.34	94	3.7	100	3.94	T1/T2	C	1.05
VT607	6	7	16											1.12
VT6072	6	7.2	16											1.15
VT6085	6	8.5	9											1.28
VT609	6	9	8											1.30
VT608	6	8	10	98	3.86	56	2.2	117	4.61	119	4.69	T1	B	1.2
VT608A	6	8	10	98	3.86	56	2.2	110	4.33	114	4.49	T1	D	1.2
VT610	6	10	14	151	5.94	50	1.97	94	3.7	100	3.94	T1/T2	C	1.6
VT612	6	12	10											1.75
VT614	6	14	10	108	4.25	71	2.8	140	5.51	140	5.51	+T2/-T1		2.25
VT614W	6	14	16	108	4.25	71	2.8	140	5.51	140	5.51	H/S plug		2.25
VT620	6	20	8	157	6.18	83	3.27	125	4.92	130	5.12	T3	C	3.1
VT8032	8	3.2	30	68	2.68	49	1.93	91	3.58	91	3.58	Tab	L	0.83
VT8032A	8	3.2	28	134	5.28	36	1.42	63	2.48	69	2.72	T1	E	0.85

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Model	Nominal Voltage (V)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT12008	12	0.8	200	96	3.78	25	0.98	62	2.44	62	2.44	plug	O	0.33
VT12012	12	1.2	90	97	3.82	43	1.69	52	2.05	58	2.28	T1	E	0.52
VT12014	12	1.4	70											0.55
VT12012A	12	1.2	110	97	3.82	48	1.89	51	2.01	57	2.24	T1	F	0.54
VT1202M	12	2.0	70	150	5.91	20	0.79	90	3.54	90	3.54	Tab	L	0.67
VT1202C	12	1.6	150	144	5.67	24	0.94	65	2.56	65	2.56	Tab		0.55
VT1202	12	2	65	178	7.01	35	1.38	61	2.4	67	2.64	T1	C	0.80
VT12023	12	2.3	60											0.88
VT12023C	12	2.3	130	182	7.17	24	0.94	62	2.44	62	2.44	Tab		0.71
VT12023CA	12	2.3	140	201	7.91	24	0.94	62	2.44	62	2.44	Tab		0.72
VT1202A	12	2	72	70	2.76	48	1.89	98	3.86	104	4.09	T1	C	0.75
VT12023A	12	2.3	60											0.80
VT12026A	12	2.6	55											0.85
VT12026	12	2.6	35	178	7.01	34	1.34	60	2.36	71	2.8	T1	F	0.92
VT12025	12	2.5	42	104	4.09	48	1.89	70	2.76	70	2.76	+T2/-T1	M	0.90
VT12027	12	2.7	38											0.98
VT12028	12	2.8	50	67	2.64	67	2.64	97	3.82	103	4.06	T1	C	0.99
VT12028A	12	2.8	50	132	5.2	33	1.3	98	3.86	104	4.09	T1	C	1.0
VT12029	12	2.9	42	79	3.11	56	2.2	99	3.9	105	4.13	T1	D	1.05
VT12032	12	3.2	52	134	5.28	67	2.64	61	2.4	67	2.64	T1	E	1.22
VT12034	12	3.4	50											1.3
VT12042	12	4.2	45	195	7.68	47	1.85	70	2.76	76	2.99	T1	C	1.43
VT12045A	12	4.5	40											1.58
VT1204	12	4	55	90	3.54	70	2.76	101	3.98	107	4.21	T1	C	1.35
VT12045	12	4.5	45											1.46
VT1205	12	5	26											1.60
VT1206	12	6	22											1.75
VT1205A	12	5	26	140	5.51	48	1.89	102	4.02	103	4.06	+T2/-T1	C	1.65
VT1206A	12	6	22											1.8
VT12065	12	6.5	24	151	5.94	52	2.05	94	3.7	99	3.9	T2/T1	F	1.92
VT12065S	12	6.5	24	151	5.94	51	2.01	95	3.74	100	3.94	+T2/-T1	F	1.9
VT12065A	12	6	30	151	5.94	65	2.56	94	3.7	100	3.94	T1/T2	F	2.02
VT1207	12	7	28											2.22
VT12072	12	7.2	28											2.26
VT12075	12	7.5	22											2.3
VT12085	12	8.5	20											2.45
VT1209	12	9	19											2.60
VT1210A	12	10	19	151	5.94	65	2.56	111	4.37	117	4.61	T2/T1	F	2.75
VT1210	12	10	32	151	5.94	98	3.86	95	3.74	101	3.98	T2	F	3.15
VT1212	12	12	19											3.5
VT1215A	12	15	20	160	6.3	76	2.99	159	6.26	162	6.38	T3	C	4.5
VT1215	12	15	18	181	7.13	77	3.03	167	6.57	167/167	6.57/6.57	T3/T8	D	5.0
VT1217	12	17	17											5.1
VT1218	12	18	16											5.3
VT1220	12	20	12											5.6
VT1222	12	22	10	181	7.13	77	3.03	166	6.54	166	6.54	T8	D	6.1
VT1224	12	24	14	166	6.54	175	6.89	125	4.92	125/125	4.92/4.92	T3/T8	D	7.8
VT1224A	12	24	14	165	6.5	125	4.92	175	6.89	182/175	7.17/6.89	T6/T8	D	7.8
VT1226	12	26	12	165	6.5	176	6.93	127	5	127	5	T3	D	7.9
VT1228	12	28	10	166	6.54	175	6.89	125	4.92	125/125	4.92/4.92	T3/T8	D	8.6
VT1228A	12	28	11	165	6.5	125	4.92	175	6.89	182/175	7.17/6.89	T6/T8	D	8.6
VT1807	18	7	60	151	5.94	102	4.02	100	3.94	100	3.94	plug	P	3.4
VT1809	18	9	40											4.0
VT24045	24	4.5	65	206	8.11	77	3.03	74	2.91	74	2.91	plug	P	3.0
VT2405	24	5	60	140	5.51	90	3.54	103	4.06	109	4.29	T1	D	3.2
VT2410	24	10	50	301	11.85	65	2.56	102	4.02	102	4.02	plug	P	5.6
VT2414	24	14	45	300	11.81	98	3.86	103	4.06	103	4.06	plug	P	8
VT2420	24	20	35	170	6.69	146	5.75	185	7.28	185	7.28	plug	E	11.5
VT3612	36	12	60	190	7.48	150	5.91	115	4.53	115	4.53	plug	P	9.8

Standard Battery Series : VT Type

- Voltage : 6V, 8V, 12V ■ Capacity : 33AH to 280AH
- Designed floating service life : 12 Years at 20°C/68oF to 25°C/77°F

Model	Nominal Voltage (V)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT636	6	36	4.5	162	6.4	88	3.5	164	6.5	170	6.7	T2	B	5.5
VT642	6	42	4.2											6.2
VT645	6	45	4											6.4
VT6100	6	100	3	194	7.6	170	6.7	205	8.1	210	8.3	T9	A	15.0
VT6100A	6	100	3	281	11.1	128	5	189	7.4	204	8	T11	B	15.5
VT6150	6	150	2.5	260	10.24	180	7.09	245	9.65	250	9.84	T11	B	23.5
VT6180B	6	180	2.3											28
VT6200B	6	200	2											30
VT6200	6	200	2	321	12.64	176	6.93	226	8.9	246	9.69	T5/T11	A	30.5
VT6225	6	225	1.8											32
VT6180	6	180	2.2	307	12.1	169	6.7	220	8.7	225	8.9	T11	B	27.5
VT6200A	6	200	2	307	12.1	169	6.7	220	8.7	225	8.9	T11	B	29
VT6190	6	190	2.2	243	9.6	187	7.4	253	10	276	10.9	T11	B	28.5
VT6220	6	220	2											32
VT6300	6	300	1.5	295	11.61	178	7.01	345	13.58	348	13.7	T11	B	47
VT8180	8	180	3	260	10.24	182	7.17	295	11.61	298	11.73	T11	C	36.5
VT1233	12	33	10	195	7.7	130	5.1	155	6.1	180/166	7.1/6.7	T7/T9	C	9.2
VT1235	12	35	9	310	12.2	77	3	166	6.5	172/180	6.8/7.1	T2/T3	D	10.2
VT1234	12	34	11											9.5
VT1238	12	38	9											12.0
VT1240	12	40	8.5	197	7.8	165	6.5	170	6.7	170/170	6.7/6.7	T4/T9	D	12.5
VT1245	12	45	8	197	7.8	165	6.5	175	6.9	182/175	7.2/6.9	T6/T9	D	13.7
VT1240A	12	40	8.5											12.8
VT1245A	12	45	8											14
VT1240B	12	40	8.5	197	7.8	166	6.5	170	6.7	170	6.7		D	12.8
VT1250	12	50	7.5	229	9	138	5.4	208	8.2	230/211	9.1/8.3	T5/T9	C	16.0
VT1255	12	55	6.5											16.5
VT1260B	12	60	6	250	9.8	160	6.3	178	7	200/181	7.9	T5/T9	C	19
VT1260C	12	60	6	220	8.66	121	4.76	247	9.72	250	9.84	T9	D	18.5
VT1260	12	60	7	260	10.2	168	6.6	211	8.3	233/214	9.2/8.4	T5/T9	C	18.5
VT1270	12	70	6.5											21.5
VT1275	12	75	6											22.5
VT1280A	12	80	5.5											23.5
VT1285	12	85	5											24.3
VT1265	12	65	6	350	13.78	167	6.57	179	7.05	186	7.32	T5/T9	C	20.8
VT1270S	12	70	5.5											21.5
VT1275S	12	75	5.4											22.2
VT1278	12	78	5											22.4
VT1280	12	80	4											23.2
VT1265A	12	65	6.5	350	13.8	166	6.5	174	6.9	174	6.9	T17/T9	D	21
VT1265B	12	65	6	330	13	173	6.8	167	6.6	170	6.7	T9	D	20.8
VT1290A	12	90	5	330	13	171	6.7	214	8.4	224/220	8.8/8.7	T5/T9	C	26.8
VT12100	12	100	4.5											30.0
VT12120A	12	110	4											32.5
VT1290	12	90	5.5	306	12.05	169	6.65	211	8.31	233	9.17	T5/T9	C	27
VT1295	12	95	5											27.5
VT12100V	12	100	4											30
VT12100A	12	100	4.5	406	15.98	173	6.81	208	8.19	238	9.37	T19/T5/T11	C	30.5
VT12120C	12	120	4											35
VT12100C	12	100	4.5	330	12.99	220	8.66	160	6.3	165	6.5	T9	C	30
VT12100S	12	100	4.5	409	16.1	176	6.93	225	8.86	225	8.86	T5/T11	C	31
VT12120	12	120	4											35
VT12120B	12	120	4	443	17.4	167	6.58	204	8.03	224	8.82	T5	D	35
VT12110	12	110	4	281	11.1	267	10.5	207	8.1	210	8.3	T11	B	33
VT12134	12	134	3.8	342	13.46	172	6.77	280	11.02	285	11.22	T11	C	41.3
VT12150C	12	150	3.2											45.5



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				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT1214S	12	14S	5	428.5	16.9	177	7	258	10.2	258	10.2	M6 bolt		44.5
VT12150A	12	150	4.5											47
VT12160A	12	160	4.2											49.5
VT12150	12	150	3.5	485	19.1	172	6.8	240	9.4	242/240	9.5/9.5	T5/T11	C	43
VT12150B	12	150	3.6	494	19.45	163	6.44	227	8.89	227	8.89	T11/T13	E	45
VT12160	12	160	4.2	530	20.8	207	8.15	214	8.43	217	8.54	T5/T9	E	49.5
VT12150S	12	150	3.8	494	19.45	206	8.11	209	8.23	235	9.25	T20/T11	E	47
VT12180	12	180	3.3											54
VT12200A	12	200	2.8											57
VT12200	12	200	3	522	20.6	238	9.4	218	8.6	238/221	9.4/8.7	T5/T11	E	60.5
VT12225	12	225	2.8											65
VT12200S	12	200	3.3	499	19.6	260	10.2	218	8.6	241	9.5	T12	E	61
VT12220S	12	220	3											64.5
VT12230	12	230	2.8	521	20.51	269	10.59	203	7.99	223/206	8.8/8.1	T5/T11	E	66.5
VT12250	12	250	2.6	521	20.5	269	10.6	220	8.7	242/223	9.5/8.8	T5/T11	E	72.8

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Model	Nominal Voltage (V)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT250	2	50	1.1	161	6.3	50	2	166	6.5	175	6.9	T4	B	3.0
VT2100	2	100	0.8	171	6.7	72	2.8	206	8.1	209	8.2	T11	A	5.4
VT2150	2	150	0.6	171	6.7	102	4	206	8.1	221	8.7	T11	A	8.1
VT2200	2	200	0.9	173	6.8	109	4.3	330	13	364	14.3	T10	G	12.4
VT2250	2	250	0.75											14.5
VT2300	2	300	0.75	171	6.7	151	5.9	330	13	364	14.3	T10	G	17.5
VT2350	2	350	0.65											19.2
VT2400	2	400	0.6	210	8.3	171	6.9	330	13	367	14.4	T10	H	24.2
VT2450	2	450	0.5											27.5
VT2500	2	500	0.5	241	9.5	171	6.7	330	13	365	14.4	T10	H	29.2
VT2550	2	550	0.45											32.5
VT2600	2	600	0.45	302	11.9	175	6.9	330	13	367	14.4	T10	H	35
VT2800	2	800	0.35	410	16.1	175	6.9	330	13	367	14.4	T10	I	48.5
VT21000	2	1000	0.28	475	18.7	175	6.9	330	13	367	14.4	T10	I	59.5
VT21200	2	1200	0.25											66
VT21500	2	1500	0.2	400	15.7	350	13.8	345	13.6	382	15	T10	J	91
VT22000	2	2000	0.18	490	19.3	350	13.8	345	13.6	382	15	T10	K	120
VT22400	2	2400	0.15											138
VT23000	2	3000	0.11	710	28	350	13.8	345	13.6	382	15	T10	K	185
VT2200S	2	200	0.8	206	8.1	103	4.1	355	14	390	15.4	T10	G	15
VT2250S	2	250	0.75	206	8.1	124	4.9	355	14	390	15.4	T10	G	18.5
VT2300S	2	300	0.7	206	8.1	145	5.7	355	14	390	15.4	T10	G	20.5
VT2350S	2	350	0.65	206	8.1	124	4.9	471	18.5	506	19.9	T10	G	23.5
VT2400S	2	400	0.55	206	8.1	145	5.7	471	18.5	506	19.9	T10	G	27
VT2500S	2	500	0.45	206	8.1	166	6.5	471	18.5	506	19.9	T10	G	31.5
VT2600S	2	600	0.4	206	8.1	145	5.7	646	25.4	681	26.8	T10	G	42.5
VT2770S	2	770	0.35	253	10	210	8.3	471	18.5	506	19.9	T10	G	57
VT2800S	2	800	0.35	210	8.3	191	7.5	646	25.4	681	26.8	T10	H	59
VT21000S	2	1000	0.3	233	9.2	210	8.3	646	25.4	681	26.8	T10	H	67
VT21200S	2	1200	0.25	275	10.8	210	8.3	646	25.4	681	26.8	T10	H	84
VT21500S	2	1500	0.2	275	10.8	210	8.3	796	31.3	831	32.7	T10	H	103
VT22000S	2	2000	0.18	399	15.7	210	8.3	772	30.4	807	31.8	T10	Q	148
VT22500S	2	2500	0.15	487	19.2	212	8.3	772	30.4	807	31.8	T10	I	185
VT23000S	2	3000	0.12	576	22.7	212	8.3	772	30.4	807	31.8	T10	I	220

Deep Cycle Battery Series

- Voltage : 6V, 8V, 12V, 18V, 24V, 36V ■ Capacity : 4.5AH to 3000AH
- Battery cycle life is more than 350 cycles at 80% DOD at 20°C/68°F

Model	Nominal Voltage (V)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT1205D	12	5	26	90	3.5	70	2.8	101	4	107	4.2	T1	C	1.60
VT1207D	12	7	28	151	5.9	65	2.6	94	3.7	100	3.9	T1	F	2.22
VT1209D	12	9	19	151	5.9	65	2.6	94	3.7	100	3.9	T1	F	2.6
VT1212D	12	12	19	151	5.9	98	3.9	95	3.7	101	4	T2	F	3.5
VT1218D	12	18	16	181	7.1	77	3	167	6.6	167/167	6.6/6.6	T3/T8	D	5.3
VT1220D	12	20	12											5.6
VT1224D	12	24	14	166	6.5	175	6.9	125	4.9	125/125	4.9/4.9	T3/T8	D	7.8
VT1228D	12	28	10											8.6
VT1807D	18	7	60	151	5.9	102	4	100	3.9	100	3.9	plug	P	3.4
VT1809D	18	9	40											4.0
VT24045D	24	4.5	65	206	8.1	77	3	74	2.9	74	2.9	plug	P	3.0
VT2405D	24	5	60	140	5.51	90	3.54	103	4.06	109	4.29	T1	D	3.2
VT2410D	24	10	50	301	11.9	65	2.6	102	4	102	4	plug	P	5.6
VT2414D	24	14	45	300	11.8	98	3.9	103	4.1	103	4.1	plug	P	8.0
VT2420D	24	20	35	170	6.69	146	5.75	185	7.28	185	7.28	plug	E	11.5
VT3612D	36	12	65	190	7.5	150	5.9	115	4.5	115	4.5	plug	P	9.8
VT6100D	6	100	3	194	7.6	170	6.7	205	8.1	210	8.3	T9	A	15.0
VT6150D	6	150	2.5	260	10.2	180	7.1	245	9.6	250	9.8	T11	B	23.5
VT6200D	6	200	3.1	321	12.6	176	6.9	226	8.9	246/229	9.7/9.0	T5/T11	A	30.5
VT6190D	6	190	2.2	243	9.57	187	7.36	253	9.96	276	10.87	T11	B	28.5
VT6220D	6	220	2											32
VT8180D	8	180	3	260	10.24	182	7.17	295	11.61	298	11.73	T11	C	36.5
VT1233D	12	33	10	195	7.7	130	5.1	155	6.1	180/166	7.1/6.5	T7/T9	C	9.5
VT1240D	12	40	8.5	197	7.8	165	6.5	170	6.7	170/170	6.7/6.7	T4/T9	D	12.5
VT1255D	12	55	6.5	229	9	138	5.4	208	8.2	230/211	9.1/8.3	T5/T9	C	16.5
VT1260D	12	60	7	260	10.2	168	6.6	211	8.3	233/214	9.2/8.4	T5/T9	C	18.5
VT1270D	12	70	6.5											21.5
VT1280D	12	80	5.5											23.2
VT1265D	12	65	6	350	13.8	167	6.6	179	7	186/179	7.3/7.0	T5/T9	C	20.8
VT1290D	12	90	5.5	306	12	169	6.7	211	8.3	233/214	9.2/8.4	T5/T9	C	26.8
VT12100D	12	100	4.5	330	13	171	6.7	214	8.4	224/220	8.8/8.7	T5/T9	C	30
VT12120D	12	120	4	409	16.1	176	6.9	225	8.9	225/225	8.9/8.9	T5/T11	C	35
VT12150D	12	150	3.5	485	19.1	172	6.8	240	9.4	242/240	9.5/9.4	T5/T11	C	43
VT12180D	12	180	3.3	494	19.4	206	8.1	209	8.2	235/235	9.3/9.3	T20/T11	E	54
VT12200D	12	200	3	522	20.6	238	9.4	218	8.6	238/221	9.4/8.7	T5/T11	E	60.5
VT12250D	12	250	2.6	521	20.5	269	10.6	220	8.7	242/223	9.7/8.8	T5/T11	E	72.8

High Rate Discharge Battery Series

- **Voltage** : 6V, 12V ■ **Capacity** : 12AH to 250AH
- **Designed floating service life** : FP type : 5 Years / LFP type : 10 Years at 20°C/68°F

Model	Nominal Voltage (V)	15 min. Rate Capacity(Ah) (watts/cell)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
					Length		Width		Height		Total Height				
					mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT6045HR	6	19	4.5	15	70	2.8	47	1.9	101	4	107	4.2	T1/T2	A	0.8
VT605HR	6	22	5	12											0.9
VT607HR	6	31	7	9	151	5.9	34	1.3	94	3.7	100	3.9	T1/T2	C	1.28
VT609HR	6	34	9	8											1.35
VT612HR	6	51	12	6	151	5.9	50	2	94	3.7	100	3.9	T1/T2	C	2.0
VT12045HR	12	19	4.5	26	90	3.5	70	2.8	101	4	107	4.2	T1/T2	C	1.6
VT1205HR	12	22	5	22											1.8
VT1206HR	12	24	6	18	151	5.9	52	2	94	3.7	99	3.9	T2/T1	F	2.1
VT1207HR	12	31	7	20	151	5.9	65	2.6	94	3.7	100	3.9	T1/T2	F	2.45
VT1209HR	12	34	9	18											2.65
VT1212HR	12	51	12	11	151	5.9	98	3.9	95	3.7	101	4	T2	F	4.0
VT1218HR	12	76	18	12	181	7.1	77	3	167	6.6	167/167	6.6/6.6	T3/T8	D	5.7
VT1220HR	12	82	20	10	181	7.1	77	3	166	6.5	166	6.5	T8	D	6.3
VT1224HR	12	100	24	10	166	6.5	175	6.9	125	4.9	125/125	4.9/4.9	T3/T8	D	8.2
VT1228HR	12	110	28	9	165	6.5	125	4.9	175	6.9	182/175	7.2/6.9	T6/T8	D	9.3
VT1233HR	12	125	33	9	195	7.7	130	5.1	155	6.1	180/166	7.1/6.6	T7/T9	C	10.5
VT1245HR	12	160	45	7.5	197	7.8	165	6.5	170	6.7	170/170	6.7/6.7	T4/T9	D	14.2
VT1265HR	12	240	65	5.5	350	13.8	167	6.6	179	7	186/179	7.3/7.1	T5/T9	C	21.5
VT1270HR	12	250	70	6	260	10.2	168	6.6	211	8.3	233/214	9.2/8.4	T5/T9	C	22
VT1275HR	12	282	75	5.5											23
VT1280HR	12	290	80	5											24.5
VT1290HR	12	330	90	4.5	306	12	169	6.7	211	8.3	233/21	9.2/8.4	T5/T9	C	29.5
VT12100HR	12	390	100	3.5	330	13	171	6.7	214	8.4	224/220	8.8/8.7	T5/T9	C	32.5
VT12120HR	12	425	120	3.2	409	16.1	176	6.9	225	8.9	225/225	8.9/8.9	T5/T11	C	38
VT12134HR	12	475	134	3.5	342	13.5	172	6.8	280	11	285	11.2	T11	C	43
VT12140HR	12	500	140	3.2											46
VT12150HR	12	535	150	3	485	19.1	172	6.8	240	9.4	242/240	9.5/9.4	T5/T11	C	47
VT12200HR	12	710	200	2.8	522	20.6	238	9.4	218	8.6	238/221	9.4/8.7	T5/T11	C	65
VT6200HR	6	710	200	3	321	12.6	176	6.9	226	8.9	246/229	9.7/9.0	T5/T11	A	32.5

High Temperature Battery Series

- **Voltage** : 6V & 12V ■ **Capacity** : 0.3AH to 3000AH
- Battery performance can be expected at the ambient temperatures at -15/68°C/5°F to 70/68°C/158°F

Model	Nominal Voltage (V)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT1207T	12	7	28	151	5.9	65	2.6	94	3.7	100	3.9	T1	F	2.25
VT1212T	12	12	19	151	5.9	98	3.9	95	3.7	101	4	T2	F	3.6
VT1218T	12	18	16	181	7.1	77	3	167	6.6	167/167	6.6/6.6	T3/T8	D	5.35
VT1224T	12	24	14	166	6.5	175	6.9	125	4.9	125/125	4.9/4.9	T3/T8	D	7.8
VT6200T	6	200	2	321	12.6	176	6.9	226	8.9	246/229	9.7/9.0	T5/T11	A	32
VT1233T	12	33	10	195	7.7	130	5.1	155	6.1	180/166	7.1/6.5	T7/T9	C	10
VT1240T	12	40	8.5	197	7.8	165	6.5	170	6.7	170/170	6.7/6.7	T4/T9	D	13
VT1265L	12	65	6	350	13.8	167	6.6	179	7	186/179	7.3/7.1	T5/T9	C	21
VT1260T	12	60	7	260	10.2	168	6.6	211	8.3	233/214	9.2/8.4	T5/T9	C	21
VT1270T	12	70	6.5											23.7
VT1280T	12	80	5.5											25
VT1290T	12	90	5.5	306	12	169	6.7	211	8.3	233/220	9.2/8.7	T5/T9	C	28.5
VT12100T	12	100	4.5	330	13	171	6.7	214	8.4	224/220	8.8/8.7	T5/T9	C	32
VT12120T	12	120	4	409	16.1	176	6.9	225	8.9	225/225	8.9/8.9	T5/T11	C	37
VT12150T	12	150	3.5	485	19.1	172	6.8	240	9.4	242/240	9.5/9.5	T5/T11	C	46.5
VT12200T	12	200	3	522	20.6	238	9.4	218	8.6	238/221	9.4/8.7	T5/T11	E	65
VT12250T	12	250	2.6	521	20.5	269	10.6	220	8.7	242/223	9.5/8.8	T5/T11	E7	8

Gel Battery



Introduction

The FirstPower Korea gelled battery uses the sealed gel technology and is designed for high reliable, maintenance-free power for renewable energy applications. Depending on the advantage gel technology, optimum grid and plate design, the FirstPower gel battery offers highest power and reliability for your equipments.

Features and Benefits

Gelled electrolyte By the high-tech gelled electrolyte, gel battery is completely leakproof and spillproof for easy installation in virtually any position even under water. It eliminates ultra deep discharge and acid stratification damage.

Critical pressure control valve maintains critical internal pressure while safety expelling excess gas generated during overcharging, for longer battery life. 100% tested for highest performance.

Brushed plate lugs provide the benefits. Low-resistance straps with outstanding lug-to-knit and eliminate dropped and loose plates that reduce performance and shorten battery life.

Heavy-duty plates with high density and deep-cycle oxide active materials, advanced grid alloy for deep cycle use, provide quick recharge ability and superior deep-cycle and float performance in the most demanding applications.

ions left to conduct charge current resulting in the excellent recovery from deep discharge characteristics.

Completely maintenance-free use the "recombination" technique to replaces the oxygen and hydrogen normally lost in a met cell. Particularly in deep cycle applications(normally use the wet battery), and offer a really maintenance free battery.

Tank formed plates offer optimum computerized formation, additional quality control and improved voltage matching.

PVC separators reduce gassing and improve gel filling and electron flowing, providing more power.

Well low temperature performance, even at very low temperature the gelled electrolyte will not be frozen and provide a well performance. Gel battery is well suited to low temperature applications.

Superior life. The FirstPower Korea gelled battery maintain a long cycle and float life, provide a lowest cost per month or lowest cost per cycle

Applications

- Water pumping
- Wind generation
- Cathodic protection
- Communications
- Solar system
- Electric powered vehicles
- Golf cars
- Commercial deep cycle applications
- Power plant
- UPS systems

Gel Battery Series

■ Voltage : 2V, 6V, 12V ■ Capacity : VT Type 12V12AH~12V250AH, 2V100AH~2V3000AH
■ Charge voltage : Cycle use: 2.30~2.35V/cell; Float use: 2.25~2.30V/cell Charge current: The initial current less then 0.3CA

Model	Nominal Voltage (V)	Capacity (Ah)	Internal Resistance (mΩ)	Dimension								Terminal		Weight Kg
				Length		Width		Height		Total Height				
				mm	inch	mm	inch	mm	inch	mm	inch	Type	Position	
VT1218	12	18	16	181	7.13	77	3.03	167	6.57	167	6.57	T8	C	5
VT1224	12	24	20	166	6.54	175	6.89	125	4.92	125	4.92	T8	C	7.4
VT1228	12	28	15											8
VT1228A	12	28	14	165	6.5	125	4.92	175	6.89	175	6.89	T8	C	9
VT6100	6	100	3.3	194	7.6	170	6.7	205	8.1	205	8.1	T9	A	15.8
VT6190	6	190	2.2	243	9.6	187	7.4	253	10	276	10.9	T11	A	31
VT1233	12	33	11	195	7.7	130	5.1	155	8.9	155	8.9	T9	C	10.2
VT1240	12	40	9.5	197	7.8	165	6.5	170	6.7	170	6.7	T9	D	12.5
VT1255	12	55	7	229	9	138	5.4	208	8.2	208	8.2	T9	C	17
VT1265	12	65	6.6	350	3.8	167	6.6	179	7	179	7	T9	C	21
VT1260	12	60	7.7											22
VT1270	12	70	7	260	10.2	168	6.6	211	8.3	211	8.3	T9	C	24
VT1280	12	80	6.5	306	12.05	169	6.65	211	8.3	211	8.3	T9	C	27.5
VT1290	12	90	5.8	306	12.05	169	6.65	211	8.3	211	8.3	T9	C	28.5
VT1290H	12	90	5.4	330	13	171	6.7	214	8.4	214	8.4	T9	C	31
VT12100	12	100	5	330	13	171	6.7	214	8.4	214	8.4	T9	C	32
VT12110	12	110	5.2	330	13	171	6.7	225	8.86	225	8.86	T9	C	33.5
VT12120	12	120	4.4	409	16.1	176	6.9	225	8.9	225	8.9	T11	C	36.5
VT12140	12	134	4.2	342	13.5	172	6.8	280	11	280	11	T11	C	42.5
VT12150	12	150	3.9	485	19.1	172	6.8	240	9.4	240	9.4	T11	C	44
VT12180	12	180	3.6	494	19.4	206	8.1	209	8.2	209	8.2	T11	C	55
VT12160	12	160	3.2	530	20.8	207	8.15	214	8.43	214	8.43	T11	C	53
VT12200	12	200	3.3	522	20.6	238	9.4	218	8.6	218	8.6	T11	C	66
VT12250	12	250	2.9	521	20.5	269	10.6	220	8.7	220	8.7	T11	E	75
VT1250FT	12	50	7.2	277	10.91	106	4.17	221	8.7	221	8.7	T9	E	17
VT12100FT	12	100	5.4	506	19.9	110	4.3	224	8.8	239	9.4	T9	E	31
VT12150FT	12	150	4	551	21.7	110	4.3	287	11.3	287	11.3	T11	E	47
VT12180FT	12	180	3	546	21.5	125	4.9	317	12.5	323	12.7	T11	E	57
VT2100	2	100	0.9	171	6.7	72	2.8	206	8.1	209	8.2	T10	A	6
VT2150	2	150	0.7	171	6.7	102	4	206	8.1	211	8.3	T10	A	8.5
VT2200	2	200	0.95	173	6.8	109	4.3	330	8.3	364	14.3	T10	G	14
VT2300	2	300	0.8	171	6.7	151	5.9	330	8.3	364	14.3	T10	G	19.5
VT2400	2	400	0.65	210	8.3	176	6.9	330	8.3	367	14.4	T10	H	26.5
VT2500	2	500	0.55	241	9.5	171	6.7	330	8.3	365	14.4	T10	H	31.5
VT2600	2	600	0.5	302	11.9	175	6.9	330	8.3	367	14.4	T10	H	38
VT2800	2	800	0.4	410	16.1	175	6.9	330	8.3	367	14.4	T10	I	53.5
VT21000	2	1000	0.3	475	18.7	175	6.9	330	8.3	367	14.4	T10	I	64
VT21500	2	1500	0.22	400	15.7	350	13.8	345	13.6	382	15	T10	J	97
VT22000	2	2000	0.2	490	19.3	350	13.8	345	13.6	382	15	T10	K	130
VT23000	2	3000	0.13	710	28	350	13.8	345	13.6	382	15	T10	K	198
VT2200S	2	200	0.9	206	8.1	103	4.1	355	14	390	15.4	T10	G	15.5
VT2250S	2	250	0.8	206	8.1	124	4.9	355	14	390	15.4	T10	G	19
VT2300S	2	300	0.75	206	8.1	145	5.7	355	14	390	15.4	T10	G	21
VT2350S	2	350	0.7	206	8.1	124	4.9	471	18.5	506	19.9	T10	G	24
VT2400S	2	400	0.6	206	8.1	145	5.7	471	18.5	506	19.9	T10	G	27.5
VT2500S	2	500	0.5	206	8.1	166	6.5	471	18.5	506	19.9	T10	G	32
VT2600S	2	600	0.45	206	8.1	145	5.7	646	25.4	681	26.8	T10	G	43
VT2800S	2	800	0.4	210	8.3	191	7.5	646	25.4	681	26.8	T10	H	60
VT21000S	2	1000	0.33	233	9.2	210	8.3	646	25.4	681	26.8	T10	H	71
VT21200S	2	1200	0.28	275	10.8	210	8.3	646	25.4	681	26.8	T10	H	87
VT21500S	2	1500	0.22	275	10.8	210	8.3	796	31.3	831	26.8	T10	H	105
VT22000S	2	2000	0.2	399	15.7	210	8.3	772	30.4	807	31.8	T10	I	150
VT22500S	2	2500	0.17	487	19.2	212	8.3	772	30.4	807	31.8	T10	I	187
VT23000S	2	3000	0.13	576	22.7	212	8.3	772	30.4	807	31.8	T10	I	223

OPzV Battery



OPzV series batteries are the newly products which were developed at the end of 2005. The performances meet the standard DIN40742

Characteristics

- Gelled electrolyte, no flow, no leakage or no gradation of sulfuric acid.
- The positive plate is tubular plate, which can effectively prevent the active materials from falling off.
- PVC-SiO separator, which is special for gel 2 battery with tiny holes. The separator has high volume porosity, low electrical resistance and excellent wettability
- Maintenance-free during the whole service life.
- Low self discharge rate
- Proof against deep discharge according to DIN 43539 T5

Applications

- Telecommunication equipment
- Electronic instruments
- Fire alarm and security devices
- UPS power supply
- Solar power system
- Wind power system

Technical parameters

- | | |
|--|---|
| • Environment temperature : | -20℃~50 |
| • Environmental temperature for best utilization : | 25℃+5℃ |
| • Float charging voltage : | 2.25~2.30V/unit |
| • Cycle charging voltage : | 2.30~2.35V/unit |
| • Equalization voltage : | 2.35V/unit |
| • Temperature adjustment coefficient : | -3mV/℃/unit |
| • Max charging current : | 0.20C A 10 |
| • Design service life : | 20years(20℃) |
| • Self-discharge rate : | less than 40% after 2 year stroage at 20℃ |
| • Recover performance after | The battery can be recharged to 95% of the |
| • deep discharge : | rated capacity after 12-hour deep discharge |
| • The gas recombination efficiency exceeds : | Less than 40% after 2-year storage at 20℃ |