

INNOVATION TECHNOLOGY

TOTAL SOLUTION UNIKOR BATTERY

CHALLENGE THE LIMITS

WE WILL BE FULLY COMMITTED TO SATISFYING OUR CUSTOMERS BY FOCUSING ON
PRODUCTION OF HIGH QUALITY & INNOVATIVE BATTERIES



ADDRESS: A 701-1 Digital Empire, 387 Simin-Dero, Dongan-Gu, Anyang-Si, Gyeonggi-Do, Korea #431-804 TEL: (+82-31) 8086-7910/1 FAX: (+82-31) 8086-7612 E-Mail:ukb@unikor.com Homepage: www.unikorea.com



CHALLENGE THE LIMITS

PROLOGUE

Since established in 1995, UKB has been involved in manufacturing and exporting a wide range of industrial batteries for UPS & Telecommunications, Solar Power System and traction batteries for golf cars, forklifts, sweepers & electric vehicles to approximately 40 countries around the world.

With official JQA & JIS certifications, UKB is the only one battery maker which has successfully supplied to well-known Japanese electric power companies such as Tokyo, Kyushu and Kansai Electric Power Company among Korean & Chinese battery makers.

UKB's core product, tubular type deep cycle batteries are currently exported to 40 countries including Japan after completion of its development in 2006.

In particular, the tubular type batteries which have been applied to traction batteries for the first time in Asia have superior performance in terms of its excellent power and longevity for cost reduction. These advantages brought highly favorable reactions in Japanese & Korean traction battery markets and this is expected to contribute substantially to the company's growth in the near future.

In addition, UKB still maintains a battery plant project team. The team has transferred cutting-edge advanced technologies and know-how for manufacturing batteries & its plants to Iran, India, China, Vietnam & Nigeria and has gained a high reputation as a forerunner of the battery technology. We assure you that our skilled and experienced engineers are always ready to help you with the production of the state-of-the-art batteries wherever you are in the world.

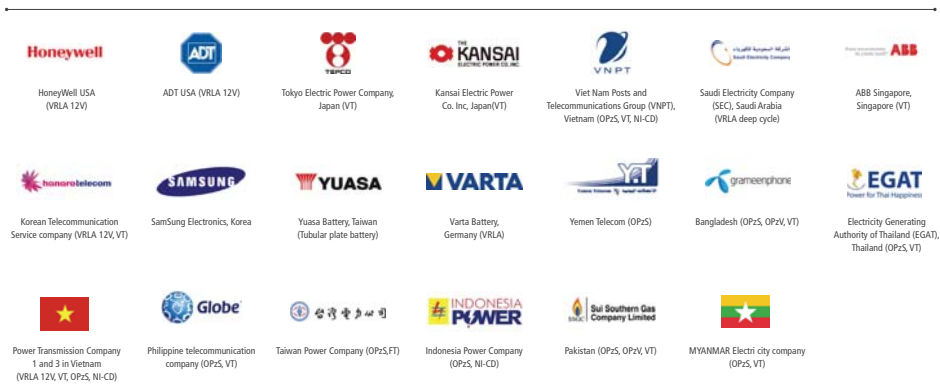
As a highly specialized battery company, we will be fully committed to satisfying our customers by focusing on production of high quality & innovative batteries.

For the details of our UKB products, please feel free to contact us at ukb@ukbkorea.com or visit us at www.ukbkorea.com.

CERTIFICATES & PATENTS



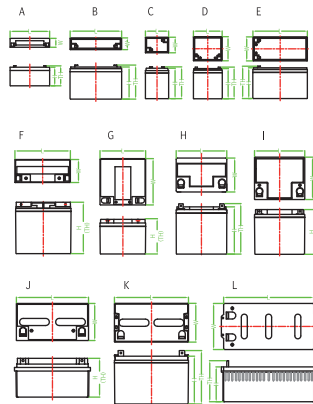
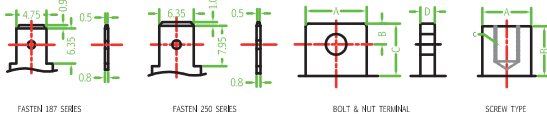
WORLDWIDE MAJOR CUSTOMERS



Sealed Valve Regulated Lead Acid VT series Battery

BATTERY MODEL	NOMINAL VOLTAGE (V)	RATED CAPACITY 25°C / 77°F(Ah)		DIMENSIONS				WEIGHT (approx.) (kg/lb)		TERMINAL TYPE	EXTERNAL SHAPE				
		20HR 1.75V / CELL	10HR 1.75V / CELL	LENGHT (±1) (mm/inch)	WIDTH (±1) (mm/inch)	HEIGHT (±2) (mm/inch)	TOTAL HEIGHT (±2) (mm/inch)								
VT6012	6V	1.2AH	1.1	97	3.81	24.5	0.96	52	2.05	58	2.28	0.31	0.68	FASTEN	A
VT604	6V	4AH	3.7	70	2.76	47	1.85	101	3.98	106	4.17	0.73	1.61	FASTEN	C
VT607	6V	7AH	6.5	151	5.94	34	1.34	94	3.70	101	3.98	1.18	2.60	FASTEN	B
VT610	6V	10AH	9.3	151	5.94	51	2.01	94	3.70	99	3.90	1.65	3.64	FASTEN	E
VT12012	12V	12AH	1.1	97	3.82	43	1.69	52	2.05	59	2.32	0.36	0.79	FASTEN	B
VT1202	12V	2AH	1.8	178	7.01	34	1.34	60	2.36	66	2.60	0.95	2.09	FASTEN	E
VT12033	12V	3.3AH	3.0	134	5.28	67	2.64	61	2.40	66	2.60	1.32	2.91	FASTEN	D
VT1204	12V	4AH	3.7	89	3.50	70	2.76	101	3.98	107	4.21	1.40	3.09	FASTEN	E
VT1205	12V	5AH	4.6	89	3.50	70	2.76	101	3.98	107	4.21	1.55	3.42	FASTEN	E
VT1207	12V	7AH	6.5	151	5.94	65	2.56	94	3.70	99	3.90	2.03	4.48	FASTEN	E
VT1210	12V	10AH	9.3	151	5.94	96	3.78	94	3.70	99	3.90	3.15	6.94	FASTEN	E
VT1212	12V	12AH	11.0	151	5.94	99	3.90	94	3.70	99	3.90	3.72	8.20	FASTEN	E
VT1218	12V	18AH	16.6	181	7.13	76	2.99	170	6.69	170	6.69	5.70	12.57	BOLT&NUT	F
VT1224	12V	24AH	22.0	168	6.61	177	6.97	125	4.92	125	4.92	7.80	17.20	BOLT&NUT	G
VT1228	12V	28AH	25.4	165	6.50	126	4.96	175	6.89	175	6.89	9.00	19.84	BOLT&NUT	G

BATTERY MODEL	NOMINAL VOLTAGE (V)	RATED CAPACITY 25°C / 77°F(Ah)		DIMENSIONS				WEIGHT (approx.) (kg/lb)		TERMINAL TYPE	EXTERNAL SHAPE				
		10HR 1.80V / CELL	1HR 1.60V / CELL	LENGHT (±1) (mm/inch)	WIDTH (±1) (mm/inch)	HEIGHT (±2) (mm/inch)	TOTAL HEIGHT (±2) (mm/inch)								
VT1233	12V	33AH	21.4	196	7.72	166	6.54	175	6.89	175	6.89	10.2	22.49	BOLT/SCREW	H
VT1242	12V	42AH	26.8	196	7.72	166	6.54	175	6.89	175	6.89	13.7	30.20	BOLT/SCREW	I
VT1265	12V	65AH	42.3	350	13.78	166	6.54	175	6.89	175	6.89	21.2	46.74	BOLT/SCREW	J
VT1270	12V	70AH	45.5	260	10.24	167	6.57	209	8.23	209	8.23	21.8	48.06	BOLT/SCREW	J
VT1280	12V	80AH	52.0	260	10.24	167	6.57	209	8.23	239	9.41	23.6	52.03	BOLT/SCREW	K
VT1290	12V	90AH	58.5	307	12.09	169	6.65	209	8.23	239	9.41	28.0	61.73	BOLT/SCREW	K
VT12100	12V	100AH	65.0	329	12.95	172	6.77	215	8.46	215	8.46	30.2	66.58	BOLT/SCREW	K
VT12120	12V	120AH	78.0	407	16.02	174	6.85	209	8.23	233	9.17	36.0	79.37	BOLT/SCREW	K
VT12150	12V	150AH	97.5	484	19.06	171	6.73	228	8.98	242	9.53	42.5	93.70	BOLT/SCREW	L
VT12200	12V	200AH	130.0	522	20.55	240	9.45	216	8.50	244	9.61	60.0	132.28	BOLT/SCREW	L
VT12250	12V	250AH	163.0	520	20.47	268	10.55	220	8.66	225	8.86	70.0	154.32	BOLT/SCREW	L



Sealed Valve Regulated Lead Acid VT series Battery

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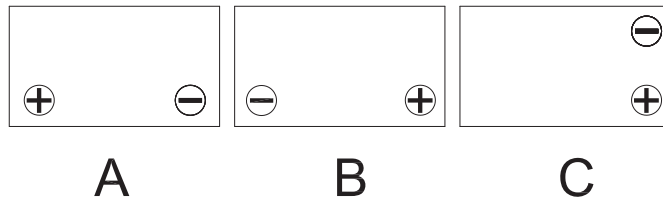
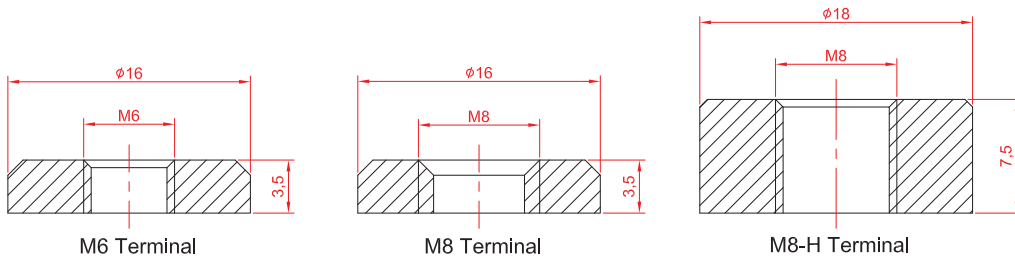


VRLA Sealed Maintenance Free GEL Battery

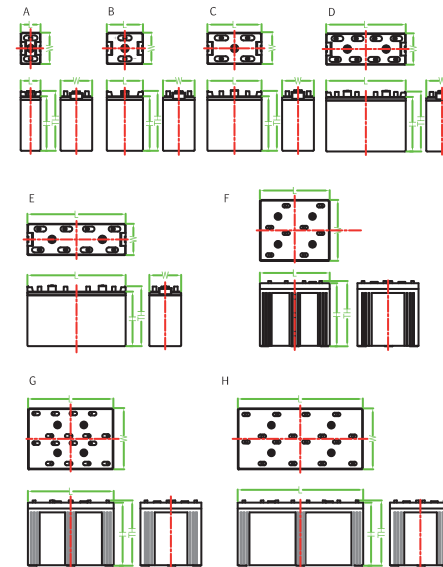
Long Life Valve Regulated Stationary Battery

BATTERY MODEL	NOMINAL VOLTAGE (V)	RATED CAPACITY 25°C / 77°F(Ah)		DIMENSIONS						WEIGHT (approx.) (kg/lb)		TERMINAL	EXTERNAL SHAPE	
		10HR 1.80V / CELL		LENGTH (±1) (mm/inch)	WIDTH (±1) (mm/inch)	HEIGHT (±2) (mm/inch)	TOTAL HEIGHT (±2) (mm/inch)							
VTG1233	12V	33AH	198	7.80	166	6.54	170	6.69	170	6.69	14.00	30.86	M6	B
VTG1250		50AH	276	10.87	174	6.85	170	6.69	198	7.80	21.00	46.30	M8	B
VTG1265		65AH	310	12.20	174	6.85	209	8.23	236	9.29	30.00	66.14	M8	B
VTG1285		85AH	414	16.30	174	6.85	218	8.58	228	8.98	37.00	81.57	M8	A
VTG12100		100AH	513	20.20	163	6.42	218	8.58	228	8.98	44.00	97.00	M8	C
VTG12120		120AH	513	20.20	232	9.13	218	8.58	228	8.98	52.30	115.30	M8	C
VTG12150		150AH	513	20.20	232	9.13	218	8.58	228	8.98	63.80	140.65	M8	C
VTG12200		200AH	513	20.20	297	11.69	218	8.58	228	8.98	82.80	182.54	M8-H	C

VTG is GEL electrolyte VRLA sealed battery which is produced under advanced GEL battery technics. Thanks to the latest GEL technics and thick grid plate,VTG offers 15 years good floating design life and good deep discharge performance 1,800 cycles at D.O.D. 50%. VTG has wide application to use in Telecommunication station, Electric power station, Solar power system, ESS system and UPS & EPS.



BATTERY MODEL	NOMINAL VOLTAGE (V)	RATED CAPACITY 25°C / 77°F(Ah)		DIMENSIONS				WEIGHT (approx.) (kg/lb)		TERMINAL EXTERNAL TYPE SHAPE					
		10HR 1.80V/CELL	1HR 1.60V/CELL	LENGTH (±2) (mm/inch)	WIDTH (±2) (mm/inch)	HEIGHT (±3) (mm/inch)	TOTAL HEIGHT (±3) (mm/inch)								
VT2100	2V	100AH	65	75	2.95	172	6.77	206	8.11	232	9.13	6.20	13.67	SCREW	A
VT2150	2V	150AH	97.5	107	4.21	172	6.77	328	12.91	350	13.78	9.30	20.50		A
VT2200	2V	200AH	130	107	4.21	171	6.73	334	13.15	344	13.54	13.50	29.76		A
VT2300	2V	300AH	195	155	6.10	175	6.89	350	13.78	368	14.49	19.50	42.99	SCREW	B
VT2400	2V	400AH	260	211	8.31	175	6.89	334	13.15	344	13.54	25.50	56.22	SCREW	C
VT2500	2V	500AH	325	243	9.57	174	6.85	334	13.15	344	13.54	31.0	68.34		C
VT2600	2V	600AH	390	302	11.89	177	6.97	334	13.15	344	13.54	37.5	82.67		C
VT2800	2V	800AH	520	410	16.14	175	6.89	334	13.15	344	13.54	52.50	115.74	BOLT&NUT	D
VT2900	2V	900AH	585	475	18.70	175	6.89	328	12.91	341	13.43	59.50	131.17	BOLT&NUT	E
VT21000	2V	1000AH	650	478	18.82	175	6.89	334	13.15	344	13.54	63.50	139.99		E
VT21500	2V	1500AH	975	401	15.79	351	13.82	340	13.39	350	13.78	97	213.85	BOLT&NUT	F
VT22000	2V	2000AH	1300	490	19.29	350	13.78	340	13.39	350	13.78	122.5	270.06		G
VT23000	2V	3000AH	1950	710	27.95	353	13.9	340	13.39	350	13.78	187	412.26		H



VRLA Sealed Maintenance Free Carbon Battery

BATTERY MODEL	NOMINAL VOLTAGE (v)	RATED CAPACITY		DIMENSIONS				WEIGHT (approx.) (kg)	TERMINAL TYPE
		25°C	77°F (AH)	L	W	H	TH		
		10HR 1.80V/CELL	1HR 1.60V/CELL	(±1) mm/inch	(±1) mm/inch	(±2) mm/inch	(±2) mm/inch		
VT1240	12V	40AH	26	197/ 7.76	166/6.54	175/6.89	175/6.89	15.8	BULNUT
VT1265	12V	65AH	42.3	350/13.78	166/6.54	174/6.85	174/6.85	22.8	BULNUT
VT1270	12V	70AH	45.5	350/13.78	168/6.54	174/6.85	174/6.85	22.8	BULNUT
VT1280	12V	80AH	52	332/13.07	174/6.85	214/8.43	224/9.41	30	BULNUT
VT1290	12V	90AH	58.5	332/13.07	174/6.85	214/8.43	224/9.41	31	BULNUT
VT12100	12V	100AH	65	332/13.07	174/6.85	214/8.43	224/9.41	33	BULNUT
VT12120	12V	120AH	78	332/13.07	174/6.85	214/8.43	224/9.41	34	BULNUT
VT12150	12V	150AH	97.5	513/20.19	250/9.84	210/8.27	228/9.57	63	BULNUT
VT12200	12V	200AH	130	513/20.19	250/9.84	210/8.27	228/9.57	69	BULNUT

BATTERY MODEL	NOMINAL VOLTAGE (v)	RATED CAPACITY		DIMENSIONS				WEIGHT (approx.) (kg)
		25°C	77°F (AH)	L	W	H	TH	
		10HR 1.80V/CELL	1HR 1.60V/CELL	(±1) mm/inch	(±1) mm/inch	(±2) mm/inch	(±2) mm/inch	
VT2200	2V	200AH	130	107/4.21	172/6.77	328/12.91	350/13.78	33
VT2250	2V	250AH	162.5	151/5.94	172/6.77	328/12.91	346/14.78	40
VT2300	2V	300AH	195	151/5.94	172/6.77	328/12.91	346/14.78	47.8
VT2400	2V	400AH	260	211/8.31	174/6.85	328/12.91	346/14.78	63
VT2500	2V	500AH	325	241/9.49	174/6.85	328/12.91	346/14.78	78
VT2600	2V	600AH	390	241/9.49	174/6.85	328/12.91	346/14.78	88
VT2700	2V	700AH	455	409/16.10	174/6.85	328/12.91	361/14.78	102
VT2800	2V	800AH	520	409/16.10	174/6.85	328/12.91	361/14.78	127
VT2900	2V	900AH	585	475/18.70	175/6.89	328/12.91	362/14.78	142
VT21000	2V	1000AH	585	475/18.70	175/6.89	328/12.91	362/14.78	159

Carbon-Enhanced VRLA Batteries

Adding carbon to a VRLA battery improves its performance and cycle lifetime compared to conventional VRLA technology, which cycle at a high electrical current while remaining in a partially state of charge operation (PSoC), Improve charge acceptance ability and Reduce the negative plate sulfation.

Product Features

- Super long cycle lifetime.
- Excellent charge acceptance ability.
- High-low temperature performance good
- Minimal self-discharge
- Reduce sulfation in the negative plate in PSoC conditions
- Improved charge acceptance
- High-performance energy storage solution

Application

- Solar energy system
- Wind power energy system
- Energy storage system (ESS)
- Solar telecom network system
- Smart grid power system
- DIN 43539-T5:1984
- KS C 8518

Technical Features

- Rated voltage: 2V and 12V series
- Range of C10 capacity: 12V - 31Ah to 200Ah, 2V – 200Ah to 2000Ah
- Self-discharge: ≤2% per month @25°C
- Life Expectancy @25°C: 50% DOD 2300 / 80% DOD 1200 / 100% DOD 650 cycles
- Recommended equalizing charge voltage: 2.33V per cell @25°C
- Max charge current limitation: 0.25C10 at PSoC
- Operation temperature: -20 to 55°C

Technical Standards

- IEC 60896-21 / 22: 2004
- IEC 61427-2005



VRLA Sealed Maintenance Free Carbon Battery

UKB Co.,Ltd.
Unikor Battery co., Ltd.



Front Access Terminal VRLA Battery

BATTERY MODEL	NORMINAL VOLTAGE (V)	RATED CAPACITY 25°C / 77°F(Ah)		DIMENSIONS								WEIGHT (approx.) (kg/lb)	
		10HR 1.80V / CELL	1 HR 1.75V/CELL	LENGTH (±1) (mm/inch)		WIDTH (±1) (mm/inch)		HEIGHT (±2) (mm/inch)		TOTAL HEIGHT (±2) (mm/inch)			
UFT1255	12	55	33.3	277	10.9	106	4.2	222	8.8	222	8.8		
UFT1280		80	49.2	395	15.6	110	4.3	288	11.3	288	11.3	28	60.6
UFT1295		95	62.8	395	15.6	105	4.1	270	10.6	270	10.6	29	62.8
UFT12100		100	46.6	395	15.6	110	4.3	288	11.3	288	11.3	35	76.1
UFT12100S		100	46.6	395	15.6	110	4.3	288	11.3	288	11.3	33	73.1
UFT12105		105	64.6	508	20.0	110	4.3	238	9.4	238	9.4	35	78.0
UFT12125		125	77.1	551	21.7	110	4.3	288	11.3	288	11.3	40	87.1
UFT12150		150	92.7	551	21.7	110	4.3	288	11.3	288	11.3	48	106.5
UFT12150S		150	88.9	551	21.7	110	4.3	288	11.3	288	11.3	46	101.4
UFT12165		165	99	551	21.7	110	4.3	288	11.3	288	11.3	49	108.0
HFT12100		100	61.5	558	22.0	125	4.9	230	9.1	230	9.1	39	83.8
HFT12100S		100	70	558	22.0	125	4.9	230	9.1	230	9.1	36	80.0
HFT12105		100	73	558	22.0	125	4.9	230	9.1	230	9.1	37	80.5
HFT12110		100	73.5	558	22.0	125	4.9	230	9.1	230	9.1	37	80.5
HFT12125		125	80.7	558	22.0	125	4.9	270	10.6	270	10.6	45	99.6
HFT12150		150	105.2	558	22.0	125	4.9	311	12.2	311	12.2	55	120.2
HFT12150S		150	105.2	546	21.5	125	4.9	311	12.2	311	12.2	55	120.2
HFT12160		160	100	558	22.0	125	4.9	311	12.2	311	12.2	55	121.3
HFT12180		180	113.4	558	22.0	125	4.9	311	12.2	311	12.2	55	121.3

FT series batteries are special designed front terminal battery for 23' and 19' power supply cabinet, high Sn low Ca alloy, AGM valve regulated technics, high efficiency recombination theory are adopted, succeeded in battery sealing and free maintenance, the battery has long service life, including two types FTA and FTB.

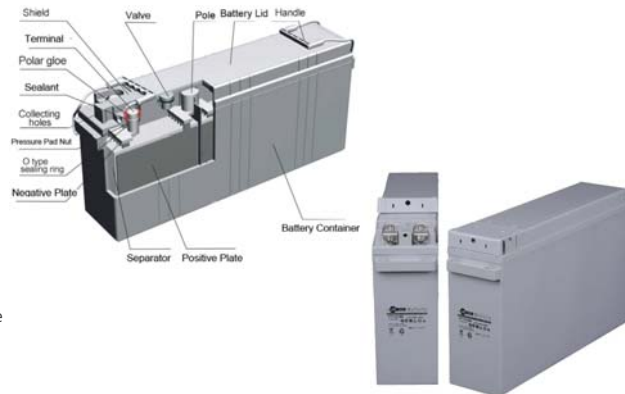
Usually, 4 pcs batteries compose 48V system, positive and negative terminal and vent hole are on front. It is convenient for installation, maintenance and measurement, saving space, central exhaust system could make battery internal gas vented to outdoor enhance the system safety and reliability.

Product Features

- Capacity range : 55Ah~180Ah
- Voltage class : 12V
- Low self-discharge rate : ≤ 1.5%/month
- Good discharge performance at high discharge rate
- Long design life (25°C) : 12 years for FTA 10 years for FTB
- High sealed reaction efficiency : ≥98%
- Wide operation temperature range : -15oC~50oC

Compliant Standards

- ICE60896-21/22:2004,
- BS 6290-4:1997,
- YD/T799-2002,
- Passed ISO9001, ISO14001, OHSAS18001, UL, CE certificate



Front Access Terminal VRLA Battery

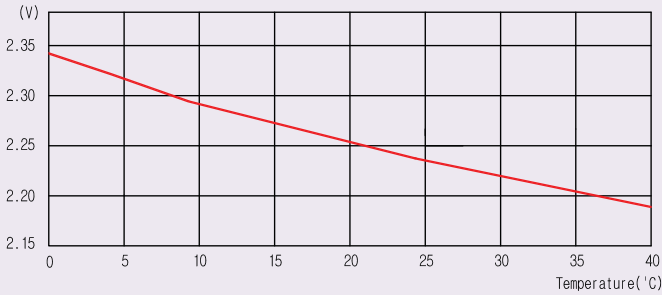
UKB Co.,Ltd.
Unikor Battery co., Ltd.



VRLA Tubular Maintenance Free Gel Battery

BATTERY MODEL	Voltage	Rated Capacity (Ah)			Dimension (mm)				NOs. OF POST	WEIGHT (Kg)
		10HR	5HR	1HR	Final Voltage (V)					
		1.80	1.70	1.60	L	W	H	TH		
OPzV 150	2	150	121	98	104	207	356	385	2	15.2
OPzV 200		200	162	130	104					18.3
OPzV 250		250	202	163	125					22.2
OPzV 300		300	243	195	146					25.7
OPzV 350		350	283	228	125					28.5
OPzV 420		420	340	273	146					34.0
OPzV 490		490	396	319	167	38.0				
OPzV 600		600	486	390	146	47.0				
OPzV 800		800	648	520	192	63.0				
OPzV 1000		1000	810	650	234	77.8				
OPzV 1200		1200	972	780	276	91.5				
OPzV 1500		1500	1215	975	276	112.0				
OPzV 2000		2000	1620	1300	400	154.0				
OPzV 2500		2500	2025	1625	488	188.0				
OPzV 3000		3000	2430	1950	577	223.0				

FLOATING CHARGE VOLTAGE

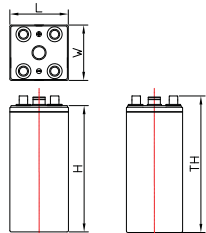


APPLICATION

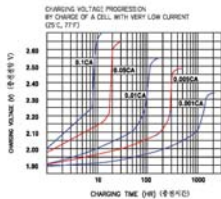
Including TELECOM STATION, RAILWAY STATION, POWER PLANT, UPS, SOLAR AND WIND POWERED SYSTEM, VT series VRLA stationary GEL battery designed to supply electric power, standby power supplying and renewable energy storage as well.

FEATURES OF GEL BATTERY

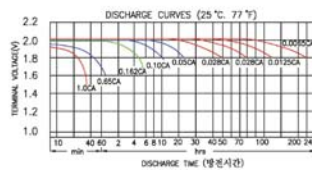
- The service life is expected to be 12~15 years at 25°C temperature.
- With no specific gravity difference depend on battery height position (bottom part and upper part), the GEL electrolyte improves electro-chemical specific character of battery and it makes longer durability of battery composition.
- Through using GEL electrolyte, battery could be minimized various difficulties including electrolyte leakage which it may possible to be happened during sealed operation and storing.
- Thanks to extremely low electrolyte concentration, it has faint erosive effects on plates and longer battery.



TYPICAL CHARGING VOLTAGE PROGRESSION



TYPICAL DISCHARGE CHARACTERISTIC VALUES



VRLA Tubular Maintenance Free Gel Battery

UKB Co.,Ltd.
Unikor Battery co., Ltd.



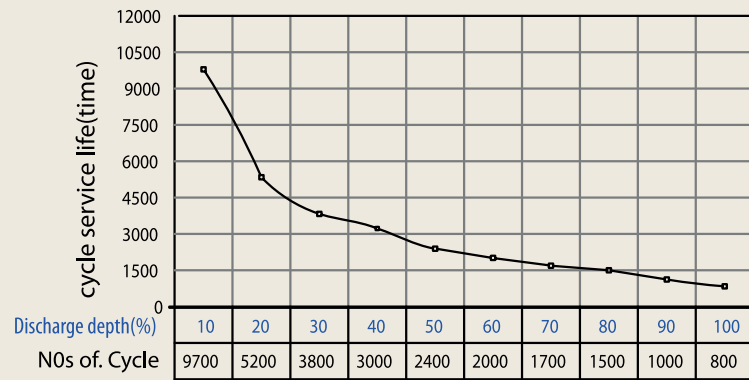
Vented Tubular Stationery OPzS Battery

Model	Voltage	10HR Capacity		Dimension (mm)				Weight (Kg)	
		(Ah) FV. 1.80V	L	W	H	TH	Dry	Wet	
4-OPzS-200	2	200	103	206	354	409	13.2	17.2	
5-OPzS-250		250	124	206	354	409	16.2	20.8	
6-OPzS-300		300	145	206	354	409	19.2	24.3	
5-OPzS-350		350	124	206	470	525	19.4	26.9	
6-OPzS-420		420	145	206	470	525	23.4	31.5	
7-OPzS-490		490	166	206	470	525	27.4	36.1	
6-OPzS-600		600	145	206	645	700	33.9	44.8	
8-OPzS-800		800	191	210	645	700	45.3	61.3	
10-OPzS-1000		1000	233	210	645	700	55.5	74.6	
12-OPzS-1200		1200	275	210	645	700	65.8	88.0	
12-OPzS-1500		1500	275	210	795	850	87.0	114.3	
16-OPzS-2000		2000	399	214	771	826	123	116	
20-OPzS-2500		2500	487	212	771	826	152	204	
24-OPzS-3000		3000	576	212	771	826	179	242	

Vented Tubular Stationery OPzS Battery

UKB Co.,Ltd.
Unikor Battery co., Ltd.

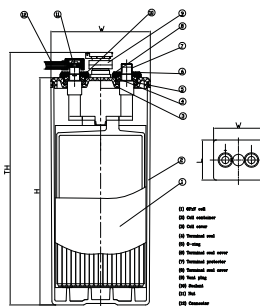
Relation curve between discharge depth and cycle service life



This battery is tubular type in which the active material is packed into parallel microporous tubes containing a central lead-antimony alloy spine. This construction gives high active material efficiency and long cycle life.

APPLICATION

- TELECOM STATION
- WIND & SOLAR POWER STATION
- POWER STATION, SUB STATION, NUCLEAR POWER PLANT
- LIGHTHOUSE, RAILWAY STATION



Type of 20V size plate: 55Ah, 70Ah, 100Ah, 125Ah. HYUN 07.05.18



ADDRESS: A 701-1 Digital Empire, 387 Simin-Daero, Dongan-Gu, Anyang-Si, Gyeonggi-Do, Korea #431-804 TEL: (+82-31) 8086-7610/1 FAX: (+82-31) 8086-7612 E-Mail:ukb@ukbkorea.com Homepage: www.ukbkorea.com

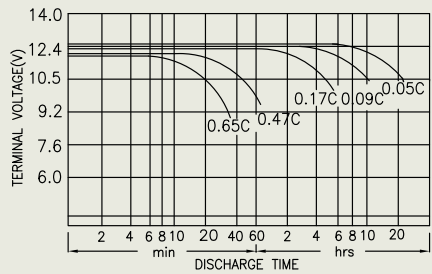


Tubular MF Solar Power Battery

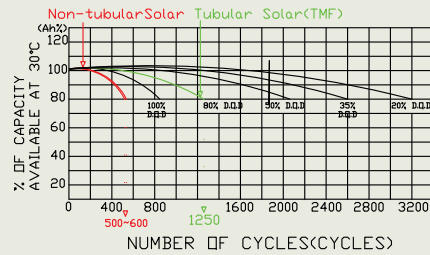
Flooded electrolyte maintenance free

TYPE	RATED VOLTAGE (V)	RATED VOLTAGE (V)			OVERALL DIMENSION (mm)				TYPE OF TERMINAL	WEIGHT (Kg)
		20AH	5HR	1HR	LENGTH	WIDTH	HEIGHT	TOTAL HEIGHT		
		FINAL VOLTAGE (V)								
1.75	1.70	1.60								
TMF1250	12	50	42	30	229	178	182	220	B&N	15
TMF1270	12	70	57	42	259	176	202	220	B&N	22
TMF12100	12	100	82	60	404	171	199	220	B&N	31
TMF12120	12	120	102	72	506	180	208	231	B&N	40
TMF12150	12	150	127	90	506	221	210	233	B&N	48
TMF12200	12	200	170	120	515	265	215	238	B&N	62
TMF12250	12	250	213	150	527	282	225	260	B&N	64

DISCHARGE CURVES (30°C, 86°F)



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



RELATION BETWEEN DOD AND LIFE SPAN

Depth of DCHG. (%)	Nos. of Cycle	Life Span (Year)
100	800	2.7
90	1050	3.5
80	1250	4.2
70	1450	4.8
60	1700	5.7
50	2050	6.8
35	2600	8.7
20	3200	10.7

SOLAR SYSTEM CONTROL WITH BATTERY

*Charging Voltage Control	
Boost Charging Voltage	14.8V
Equalizing Chrg. Voltage	14.4V
Float Charging Voltage	13.6
*Allow Load Control Voltage	
Load Disconnected	11.0V
Load Reconnected	12.6V



Tubular MF Solar Power Battery

Flooded electrolyte maintenance free

UKB Co.,Ltd.
Unikor Battery co., Ltd.



Tubular MF Positive Monoblock (EB EG ES) Deep Cycle Bttery

TUBULAR POSITIVE MONOBLOCK DEEP CYCLE SERIES

APPLICATION(적용)

UNIKOR'S advanced technology of tubular plates and new construction method ensures you longer service life of your Electric Traction and Solar Power System.

Where to use(용도)

Golf Car, Golf Cart, Electric Vehicles, Small Traction Vehicle. Life-car, Electric Car, Electric Wheel-chair, Sweeper, Aerial Work Platform, Recreational Vehicle, etc.

CONSTRUCTION FEATURES (튜브식 축전지의 구조적 특징)



Tubular Positive Plate

Product Features

- Capacity range : 55Ah~180Ah
- Voltage class : 12V
- Low self-discharge rate : ≤ 1.5%/month
- Good discharge performance at high discharge rate
- Long design life (25°C) : 12 years for FTA 10 years for FTB
- High sealed reaction efficiency : ≥98%
- Wide operation temperature range : -15°C ~50°C

BATTERY PLATE (극판)

Positive plates are of the tubular type in which the active material is packed into parallel micro-porous tubes containing a central Lead-antimony alloy spine. This construction gives material efficiency and long life.

SEPARATOR (격리판)

Low resistant porous synthetics rubber separator and micro-fiber glass-mat application.

CONTAINER (전조)

Containers are made of high heat resistance PP plastic for light weight, extra durability and visibility of electrolyte level.

VENT PLUG (주액마개)

Vent plug contains a porous PP filter to prevent acid spray and to protect the battery from external spark and flames.

- AUTO WATER FILLING SYSTEM (자동 주액장치)

EB Series (Traction) Battery – 전기차 배터리

BATTERY	TYPE	VOLT AGE (V)	CAPACITY (AH) 5HR 1.70VPC	OVERALL DIMENSION (mm)				WEIGHT (kg)		CHRG CURRENT(A)		TERMINAL	
				L (±3mm)	W (±3mm)	H (±3mm)	TH (±3mm)	WET	DRY	INITIAL	FINAL	TYPE	LAYOUT
1225EB	EB25	12	25	197	129	202	227	10	7.5	6	2	T	A
1235EB	EB35	12	35	238	129	202	227	13	9.3	8	2	T	A
1250EB	EB50	12	50	260	173	202	234	20	17	11	3	T,L	B,C
1265EB	EB65	12	65	305	173	205	236	22.5	18	15	4	T,L	B,C
1290EB	EB90	12	90	409	173	212	244	31	23.5	20	5	T,L	B,C
12100EB	EB100	12	100	409	173	212	244	33.5	24.5	23	6	T,L	B,C
12120EB	EB120	12	120	504	182	212	258	40	28	27	7	T,L	D,E
12130EB	EB130	12	130	504	182	212	258	42.5	32	29	8	T,L	D,E
12145EB	EB145	12	145	508	223	213	259	48.5	34.5	33	9	T,L	D,E
12160EB	EB160	12	160	508	223	213	259	51	35.5	36	10	T,L	D,E
12250EB	EB250	12	250	527	282	225	260	82	63	61	15	T,L	D,E

Tubular MF Positive Monoblock (EB EG ES) Deep Cycle Bttery

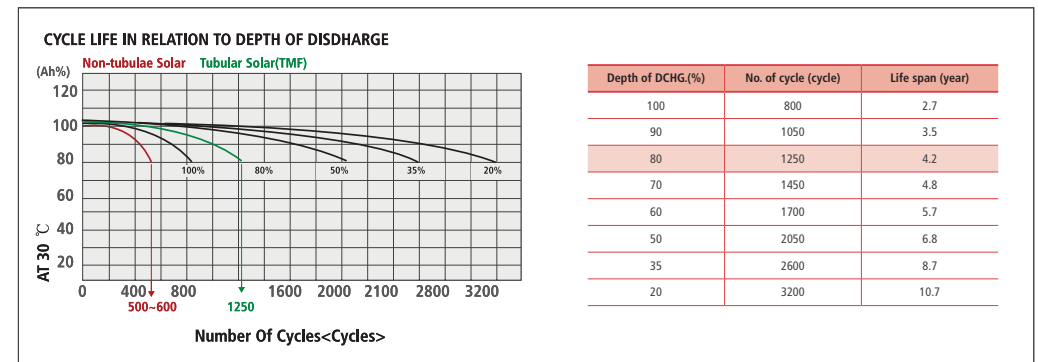
EG(EBC) GOLF CAR BATTERY – 골프카용 배터리

BATTERY	TYPE	VOLT AGE (V)	CAPACITY (AH)		OVERALL DIMENSION (mm)				WEIGHT (kg)		TERMINAL	
			5HR 1.70V	20HR 1.75V	L	W	H	TH	WET	DRY	TYPE	LAYOUT
EG6195	GC-160	6	160	195	259	182	247	289	29	22	V	A
EG6220		6	180	220	259	182	247	289	30	22.5	L	B
EG6225	GC2-105	6	185	225	245	188	250	285	31	23	L	B
EG6240	GC2-125	6	200	240	259	182	265	306	34	26	L	B
EG6250		6	210	250	247	192	252	288	34	26	L	B
EG6260	GC215	6	220	260	247	192	282	318	36	27	L	B
EG6300		6	245	300	362	172	252	310	39	31	L	B
EG8180		8	160	180	262	182	246	290	32	26	V,L	D
EG8240A		8	200	240	262	182	295	336	33.5	27.5	V,L	C
EG8240B		8	200	240	262	182	280	320	33.5	27.5	V,L	C
EG1268		12	56	68	387	116	206	235	33.5	27.5	M	D
EG1285	EC-FV1268	12	70	85	387	116	225	255	24	18	M	D
EG12105	EC-FV0890	12	85	105	326	174	226	255	31	24	L	E
EG12120		12	100	120	362	172	222	258	33.5	28	L	E
EG12150	Trojan 1275	12	120	150	362	172	249	284	39	33	L	E

ES Series (SOLAR P.V & IPS) BATTERY – 쉐라 시스템용 배터리

Type of Battery	Nominal Voltage (V)	Capacity(Ah)		Overall Dimension (mm)				Weight With Liquid (kg)
		20HR. 1.75V/cell	5HR 1.70V/cell	Length (L)	Width (W)	Height (H)	Total Height (TH)	
1226ES	12	26	22	185	117	172	212	10
1236ES		36	31	198	128	205	234	12
1245ES		45	38	259	169	198	230	15
1270ES		70	60	306	170	205	235	23
1290ES		90	76	356	170	217	252	27
2120ES		120	102	356	170	217	276	40.5
12150ES		150	127	513	269	201	223	45
12200ES		200	170	514	265	220	245	62

LIFE CYCLE SERVICE – 수명 특성



Nickel Cadmium Alkaline Battery

UNIKOR VT SERIES Ni-Cd BATTERY

BATTERY MODEL	NORMINAL Voltage (V)	NORMINAL CAPACITY (AH)	CELL DIMENSIONS (mm)			Thread of pole	CELL WEIGHT (Filled) (Kg)	ELECTROLYTE VOLUME (L)	Container Material
			L	W	H				
VTM10	1.2	10	82	43	258	M10	1.0	0.5	MBS
VTM20	1.2	20	135	54	265	M10	1.9	0.6	MBS/PP
VTM20-(2)	1.2	20	114	52	266	M10	2.1	0.7	MBS
VTM30	1.2	30	135	54	265	M10	2.4	0.6	MBS/PP
VTM40	1.2	40	141	71	295	M10	3.6	1.0	PP
VTM40-(2)	1.2	40	143	76	275	M10	3.4	0.9	MBS
VTM45	1.2	45	86	86	273	M10	3.2	0.7	PP
VTM50	1.2	50	139	79	295	M10	5.0	1.3	MBS
VTM50-(2)	1.2	50	143	76	275	M10	4.3	0.9	PP
VTM50-(3)	1.2	50	141	71	295	M10	5.0	1.3	MBS
VTM60	1.2	60	142	80	370	M10	6.0	1.8	MBS
VTM60-(2)	1.2	60	141	71	295	M10	4.4	1.0	PP
VTM60-(3)	1.2	60	143	76	275	M10	4.6	1.1	MBS
VTM70	1.2	70	139	79	295	M10	6.3	1.7	MBS
VTM70-(3)	1.2	70	143	76	275	M10	4.9	1.0	MBS
VTM75	1.2	75	139	79	362	M16	6.5	1.4	MBS/PP
VTM80	1.2	80	139	79	362	M16	6.6	1.4	MBS/PP
VTM100	1.2	100	164	106	346	M10	9.0	2.1	MBS
VTM120	1.2	120	164	106	346	M10	9.5	2.1	MBS
VTM150	1.2	150	167	165	346	M10	13.0	3.7	MBS
VTM200	1.2	200	167	165	346	M10	14.5	3.3	MBS
VTM250	1.2	250	282	170	348	M20X1.5	16.0	3.3	MBS
VTM250-(2)	1.2	250	176	161	540	M16	16.0	3.3	MBS
VTM300	1.2	300	282	170	348	M20X1.5	26.0	6.0	MBS
VTM300-(2)	1.2	300	176	161	540	M20X1.5	22.6	5.0	MBS
VTM400	1.2	400	278	139	490	M10	27.0	4.2	MBS
VTM500	1.2	500	292	176	510	M10	40.0	9.1	MBS
VTM600	1.2	600	292	176	510	M10	42.0	8.3	MBS
VTM700	1.2	700	395	185	560	M20X1.5	55.0	11.5	MBS
VTM800	1.2	800	395	186	185	M20X1.5	60.0	16.0	MBS
VTM900	1.2	900	395	186	185	M20X1.5	64.0	14.7	MBS
VTM1000	1.2	1000	395	186	185	M20X1.5	65.0	13.0	MBS
VTM1100	1.2	1100	395	186	185	M20X1.5	65.0	13.0	MBS
VTM1200	1.2	1200	395	186	185	M20X1.5	65.0	13.0	MBS

Nickel Cadmium Alkaline Battery

UNIKOR VT SERIES Ni-Cd BATTERY

UKB Co.,Ltd.
Unikor Battery co., Ltd.

Discharging Curves Nominal Voltage: 1.2V/Cell

