

ALL SERIES PRODUCT CATALOG

LCB **BATTERY**

Lead
Cooperative
Breakthrough



www.lcb.tw

COMPANY PROFILE

Long Chang battery Group, established in 2006 which is one of the Leading Valve Regulated Rechargeable Sealed Lead Acid (SLA) Battery manufacturer & exporter with headquarter in Taiwan and factory in Vietnam. LCB specializes in manufacturing 6Volt and 12Volt SLA Batteries for versatile applications which include automobiles, UPS, Telecom, Utilities, Power Supplies, Medical, Toys, Security, general electronics etc. The products are marketed worldwide to a broad customer base.

Besides, LCB has its own plate fabrication to provide one-stop OEM service for customers in speedy lead-time. With a combination of professional management and engineering teams, advanced machineries, a cost-effective production and a healthy financial condition, LCB has all the essential qualities to be a leading SLA battery manufacturer worldwide.



QUALITY ASSURANCE

The vision of LCB is to satisfy the customer with the best possible solution. Through quality control in the production and service and support in the field, LCB provide that customer needs. In an endless pursuit of perfection, LCB continues to blaze new trails in quality battery production. For quality control, LCB successfully got the certificated of ISO9001 and obtained the CE authentication of European Union, UL recognition of USA.



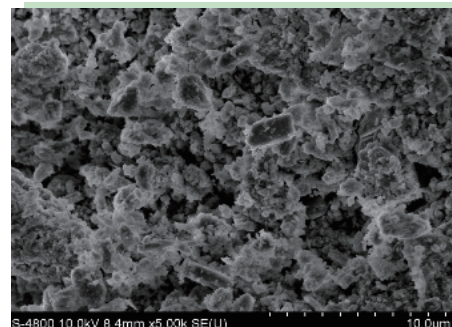
ALL SERIES C.O.S PRODUCTION
HIGH PERFORMANCE
RELIABLE QUALITY
MORE CYCLE LIFE
ULTIMATE ENERGY



LCB Quality Policy
Stable quality
Timely delivery
Satisfactory service

RESEARCH & DEVELOPMENT

LCB offers a comprehensive technical assistance package to assist customer with any special needs regardless territory constraints and is therefore available to accept order on OEM basis. LCB has earned the trust of many users throughout the years. Continuously creating new and innovative products to satisfy customer is LCB's first mission.



Environmental Protection

LCB always believes in prevention rather than aftermath clean up. We introduced unprecedented environmental protection technology and equipment for reducing side products and energy consumption when our factories were being drawn.



High C.C.A.
Reliable Quality
More Cycle Life
Satisfactory service

YOUR BEST POWER SOURCE SOLUTIONS

PRODUCT SERIES

ES SERIES

FEATURE

- General purpose battery, economy and affordable with 3~5 years standby service life.
- PbCaSn alloy for plate grids: less gassing, less self-discharging.
- High quality AGM separator: extend cycle life and prevent micro short circuit.
- Container material could be frame retardant ABS or PP with ranking UL 94V-0 by model.
- High purity raw material: ensure low self discharge rate.
- ISO9001, 14001, TS16949 certified.
- UL recognized components under UL 1989



SP SERIES

FEATURE

- General purpose battery with 3~5 years standby service life and more than 250 cycles at 100% discharge performance in cycle service.
- PbCaSn alloy for plate grids: less gassing, less self-discharging.
- High quality AGM separator: extend cycle life and prevent micro short circuit.
- Container material could be frame retardant ABS or PP with ranking UL 94V-0 by model.
- High purity raw material: ensure low self discharge rate.
- It can be put in horizontal way, vertical way and side way.
- ISO9001, 14001, TS16949 certified.
- UL recognized components under UL 1989.



EV SERIES

FEATURE

- Designed specially for electric vehicles. High cycling life, high efficiency and long service life. have more than 500 cycles life time at 60% DOD.
- Special alloy for plate grids: less gassing, less self-discharging.
- For longer cycle life: special paste formula and additives for deep discharge.
- High quality AGM separator: extend cycle life and prevent micro short circuit.
- Container material could be frame retardant ABS or PP with ranking UL 94V-0 by model.
- It can be put in horizontal way, vertical way and side way.
- ISO9001, 14001, TS16949 certified.
- UL recognized components under UL 1989.



PRODUCT SERIES

UEV SERIES

FEATURE

- New Generation AGM Battery. Have more than 400 cycles life time at 100% DOD.
- Faster Recharge Times. 30% shorter than EV series.
- Extended life. 30% up than EV series.
- Special alloy for plate grids: less gassing, less self-discharging.
- Special paste formula and additives for deep discharge.
- High quality AGM separator: extend cycle life and prevent micro short circuit.
- Container material could be frame retardant ABS or PP with ranking UL 94V-0 by model.
- It can be put in horizontal way, vertical way and side way.
- ISO9001, 14001, TS16949 certified.
- UL recognized components under UL 1989.



USP SERIES

FEATURE

- High-cycle, long life and deep-discharge performance. With more than 300 cycles at 100% discharge in cycle service, or up to 10 years standby service.
- Special alloy for plate grids: less gassing, less self-discharging.
- Thin plate technology, special grid design, unique paste formula and plate curing process for high rate performance.
- High quality AGM separator: extend cycle life and prevent micro short circuit.
- Container material could be frame retardant ABS or PP with ranking UL 94V-0 by model.
- It can be put in horizontal way, vertical way and side way.
- ISO9001, 14001, TS16949 certified.
- UL recognized components under UL 1989.



CHP SERIES

FEATURE

- Front terminal design – easy access for faster installation
- Durable polypropylene casing for higher temperatures
- Maintenance-free, topping up is never required
- Premium quality separators technology
- Long service life of 15 years
- Available as standard or flame retardant version (UL 94-V0)
- Superior lead calcium alloy for excellent corrosion resistance
- Very safe and has minimal gassing
- Low self discharge rate, enabling extended storage capability
- Designed in accordance with IEC 60896-21/-22
- Trouble-free transportation of operational blocks and cells
- Short recharging time – high availability
- Optimal energy density – saves floor space



BATTERY CUTAWAY CONFIGURATION

Sealed Terminal Post

Prevents acid leakage,
reduces corrosion;
extends battery life.

Safety Valve

Relieves excess pressure.

Hi-impact Case and Cover

Assures reserve electrolyte capacity ;to protect
against leakage and corrosion.

Cast on Strap

Using auto welding system to weld
plate group;to ensure the stability
of products.

Special Grid Design

Withstands severe vibration, assures
maximum conductivity

Absorbed glass Mat Separator

Makes the battery spill-proof.
Valve regulated design eliminates water loss.

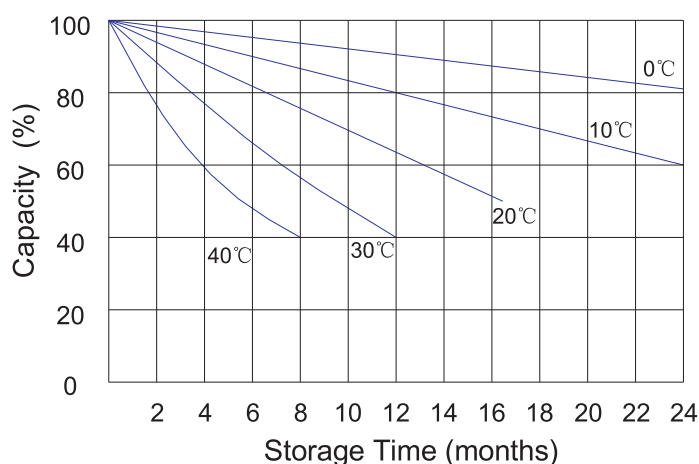
Special Active Material

Using exclusive materials to prolong battery life and dependability.

THE STORAGE OF BATTERY

- The storage temperature range: $-15^{\circ}\text{C} \sim 40^{\circ}\text{C}$, the humidity range: 25%-85%.
- Batteries under storage at ambient temperature of 25°C should be recharged every 6 months to maintain the quality, performance and reliability. The interval of this charge should be reduced to 50% by each 10°C rise in temperature above 25°C . Recharge the batteries based on storage temperatures, as follows:

Storage Temp.	Charging Interval
20°C or less	Every 9 months
$20\text{-}30^{\circ}\text{C}$	Every 6 months
$30\text{-}40^{\circ}\text{C}$	Every 3 months

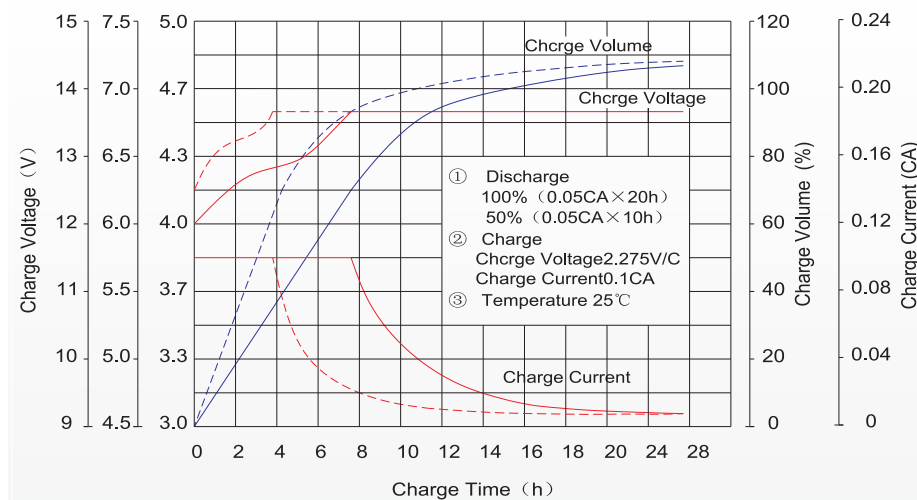


CHARGING METHOD

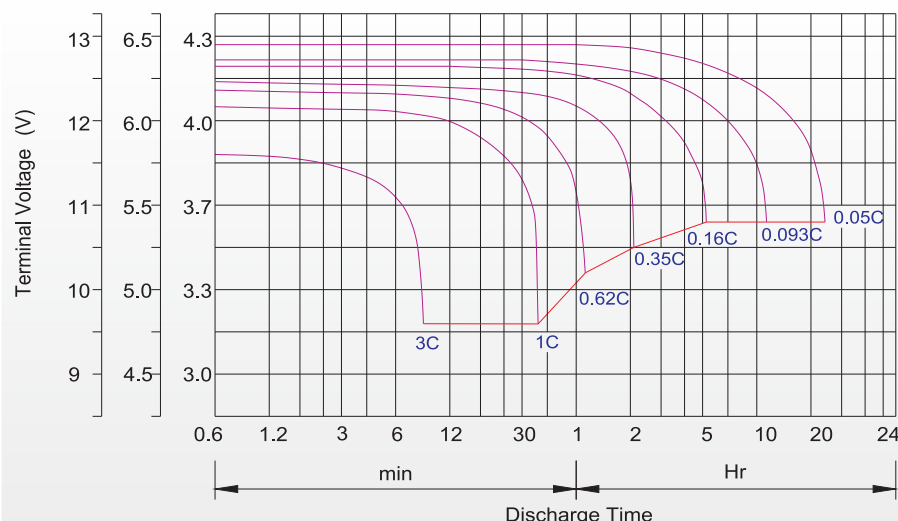
High performance and long service life of LCB battery depend upon correct charging. Any of the conventional charging techniques may be used, but to obtain maximum service life and capacity, along with acceptable recharge time, constant current/constant voltage charging is recommended, as follows:

Application	Charging method	Charging Voltage at 20°C (68°F) (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max charge current (CA)	Charging time 0.1CA, 20°C (68°F) (H)		Temperature °C
					100% Charging	50% Charging	
For standby power Source	constant voltage & constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle Service		2.40~2.50	-4	0.3	16	10	

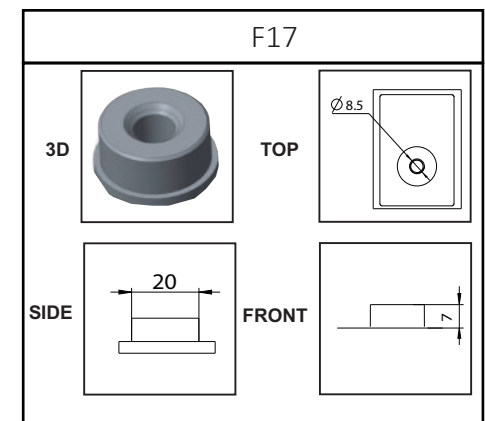
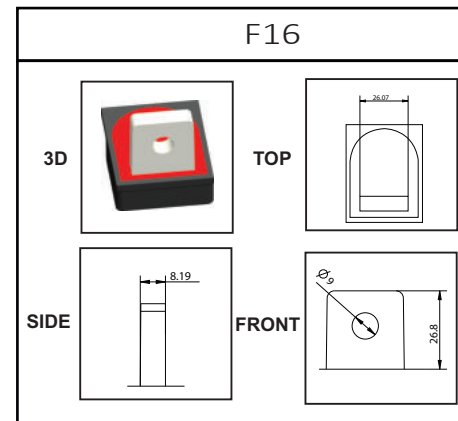
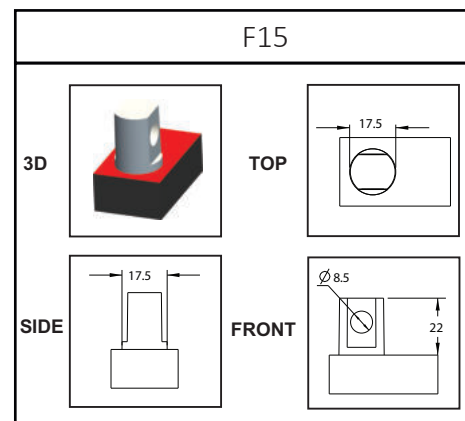
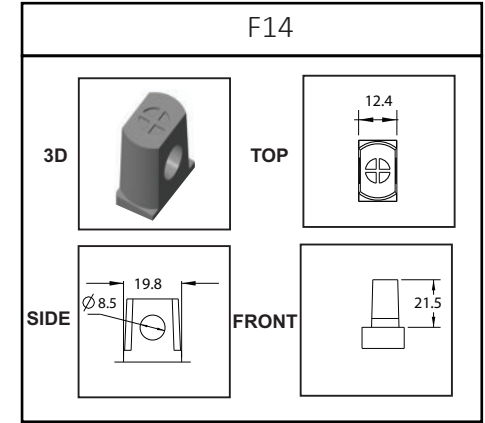
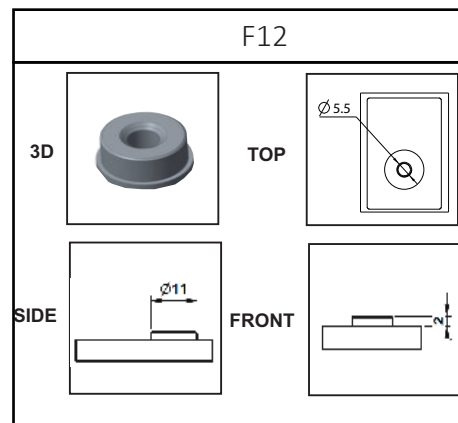
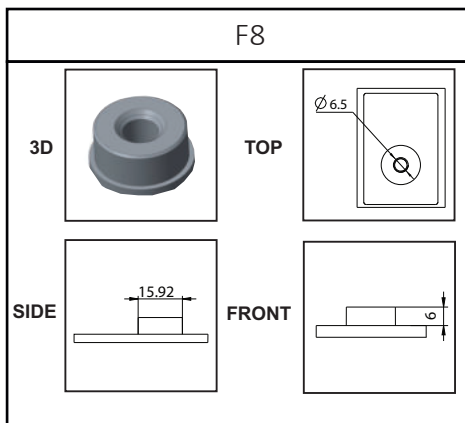
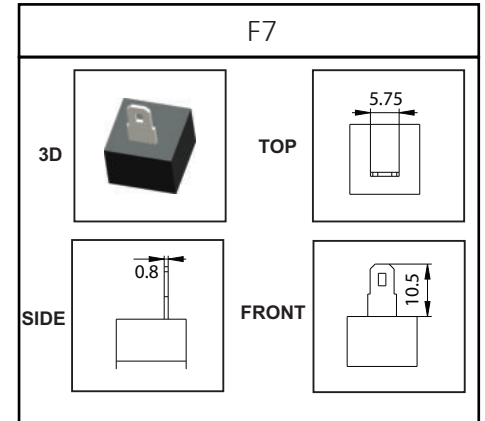
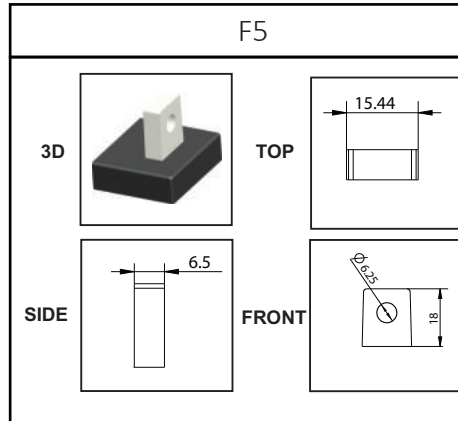
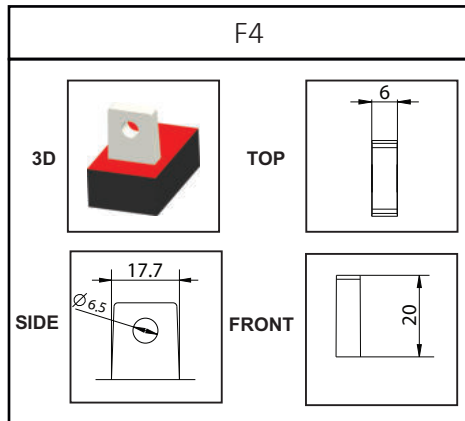
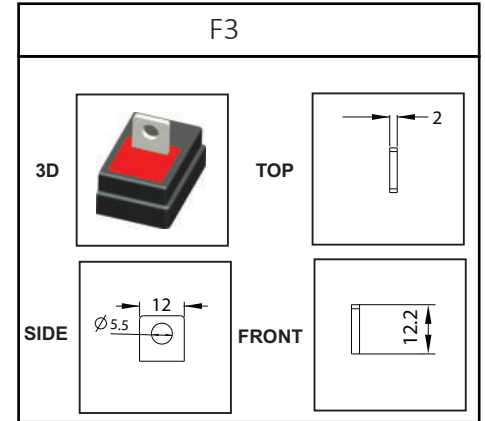
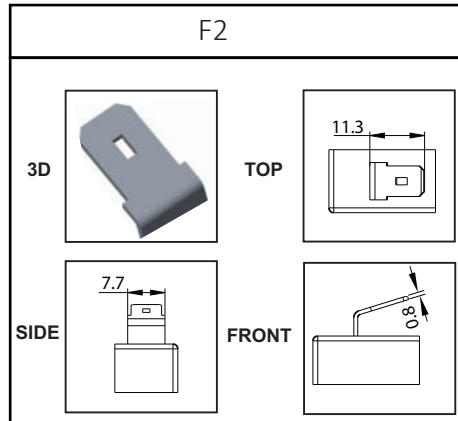
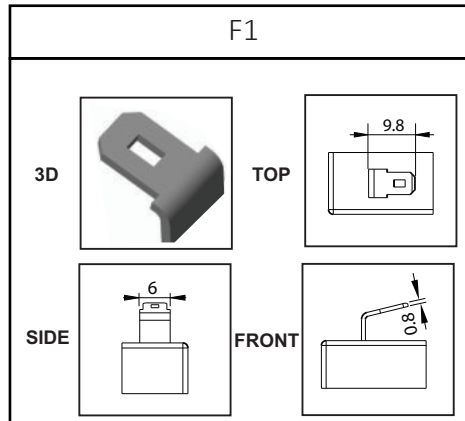
CHARGE CURVE FOR STANDBY USE



DISCHARGE CURVE



TERMINAL TYPE(For VRLA Batteries)





ES SERIES

- Maintenance-free
- Economy and affordable
- 3~5 years standby service life

NEW	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (Ah) 20HR	DIMENSIONS						HT OVER TERMINAL		WEIGHT WITH ACID		TERMINAL
			L/in	W/in	H/in	L/mm	W/mm	H/mm	in	mm	lbs	kg	
ES4-6	6	3.5	2.76	1.85	3.98	70	47	101	4.21	107	1.43	0.65	F1
ES4.2-6	6	4	2.76	1.85	3.98	70	47	101	4.21	107	1.54	0.70	F1
ES4.5-6	6	4.5	2.76	1.85	3.98	70	47	101	4.21	107	1.65	0.75	F1
ES7-6	6	7	5.94	1.34	3.70	151	34	94	3.94	100	2.42	1.10	F1
ES8.5-6	6	8.5	3.86	2.20	4.65	98	56	118	4.65	118	3.31	1.50	F1/F2
ES10-6	6	10	5.94	1.97	3.70	151	50	94	3.94	100	3.79	1.72	F1/F2
ES12-6	6	12	5.94	1.97	3.70	151	50	94	3.94	100	4.08	1.85	F1/F2
ES1.2-12	12	1.0	3.82	1.69	2.09	97	43	53	2.32	59	1.15	0.52	F1
ES1.9-12	12	1.9	7.01	1.34	2.36	178	34	60	2.60	66	2.00	0.91	F1
ES4-12	12	3.5	3.54	2.76	3.98	90	70	101	4.25	108	2.80	1.27	F1/F2
ES4.2-12	12	4	3.54	2.76	3.98	90	70	101	4.21	107	3.09	1.40	F1/F2
ES4.5-12	12	4.5	3.54	2.76	3.98	90	70	101	4.21	107	3.31	1.50	F1/F2
ES5-12	12	5	3.54	2.76	3.98	90	70	101	4.21	107	3.75	1.70	F1/F2
ES7-12	12	7.0	5.94	2.56	3.70	151	65	94	4.02	102	4.30	1.95	F1/F2
ES7.2-12	12	7.2	5.94	2.56	3.70	151	65	94	4.02	102	4.80	2.18	F1/F2
ES8-12	12	8	5.94	2.56	3.70	151	65	94	4.02	102	5.29	2.40	F1/F2
ES9-12	12	8.2	5.94	2.56	3.70	151	65	94	4.02	102	5.51	2.50	F1/F2
ES12-12	12	12	5.94	3.86	3.66	151	98	93	3.86	98	8.29	3.76	F1/F2
ES17-12	12	18	7.13	2.99	6.57	181	76	167	6.57	167	11.79	5.35	NB(F3)/IT(F12)
ES26-12	12	26	6.54	6.89	4.92	166	175	125	4.92	125	16.75	7.60	NB(F3)
ES40-12	12	40	7.76	6.50	6.69	197	165	170	6.69	170	28.28	12.83	NB(F4)
ES55-12	12	55	9.06	5.43	8.07	230	138	205	8.94	227	36.37	16.50	NB(F14)/IT(F8)
ES65-12	12	65	13.78	6.57	6.89	350	167	175	6.89	175	45.18	20.50	NB(F5)/IT(F8)
ES75-12	12	75	10.20	6.61	8.19	259	168	208	9.06	230	49.59	22.50	NB(F14)/IT(F8)
ES90-12	12	90	12.05	6.61	8.19	306	168	208	9.06	230	60.61	27.50	NB(F14)/IT(F8)
ES100-12	12	100	12.99	6.81	8.54	330	173	217	8.74	222	62.81	28.50	IT(F8)/IT(F17)
ES120-12	12	110	16.14	6.93	8.82	410	176	224	8.90	226	79.34	36.00	IT(F17)
ES150-12	12	150	19.09	6.69	9.45	485	170	240	9.65	245	99.18	45.00	IT(F17)
ES200-12	12	200	20.55	9.41	8.58	552	239	218	8.78	223	134.48	51.00	IT(F17)
ES250-12	12	250	20.67	10.63	8.70	525	270	221	9.84	250	155.09	70.37	NB(F16)

SP SERIES



- Maintenance-free
- General purpose battery
- More than 250 cycles at 100% discharge in cycle service.

BATTERY TYPE	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (Ah) 20HR	DIMENSIONS						HT OVER TERMINAL		WEIGHT WITH ACID		TERMINAL
			L/in	W/in	H/in	L/mm	W/mm	H/mm	in	mm	lbs	kg	
SP1-6	6	1.1	2.01	1.65	2.01	51	42	51	2.24	57.0	0.57	0.26	F1
SP1.3-6	6	1.3	3.82	0.98	2.05	97	25	52	2.24	57	0.73	0.33	F1
SP2-6	6	2	1.73	0.98	2.05	44	47	101	4.21	107	1.04	0.47	F1
SP623	6	2.3	1.69	1.46	2.95	43	37	75	2.95	75	0.79	0.36	F1
SP623L	6	2.3	1.69	1.46	2.95	43	37	75	2.95	75	0.79	0.36	F1
SP3-6	6	3	5.28	1.34	2.32	134	34	59	2.56	65	1.54	0.70	F1
SP3.2-6P	6	3.2	2.60	1.30	3.86	66	33	98	4.09	104	1.23	0.56	F1
SP3.8-6P	6	3.8	2.60	1.30	4.65	66	33	118	4.92	125	1.54	0.70	F1
SP5-6	6	5	2.76	1.85	3.98	70	47	101	4.21	107	1.94	0.88	F1
SP7-6	6	7	5.94	1.34	3.70	151	34	94	3.94	100	2.64	1.20	F1/F2
SP9-6	6	9	5.94	1.34	3.70	151	34	94	3.94	100	3.02	1.37	F1/F2
SP9.5-6	6	9	3.86	2.20	4.65	98	56	118	4.65	118	3.53	1.60	F1
SP10-6	6	10	5.94	1.97	3.70	151	50	94	3.94	100	3.97	1.80	F1/F2
SP12-6	6	12	5.94	1.97	3.70	151	50	94	3.94	100	4.32	1.96	F1/F2
SP13-6	6	13	4.25	1.97	5.51	108	70	140	5.51	140	4.89	2.22	NF1/PF2
SP20-6	6	21	6.14	3.23	4.92	156	82	125	4.92	125	8.60	3.90	NB(F3)
SP3.2-8	8	3.2	5.28	1.42	2.52	134	36	64	2.68	68	1.59	0.72	F1
SP0.8-12	12	0.8	3.78	0.98	2.44	96	25	62	2.44	62	0.88	0.40	WL
SP1.3-12	12	1.3	3.82	1.69	2.09	97	43	53	2.32	59	1.28	0.58	F1
SP 2.3-12	12	2.2	7.01	1.34	2.36	178	34	60	2.60	66	2.31	1.05	F1
SP 2.9-12	12	2.9	3.11	2.20	3.98	79	56	101	4.21	107	2.42	1.10	F1
SP3.5-12	12	3.6	5.28	2.64	2.36	134	67	60	2.60	66	2.98	1.35	F1/F2
SP5-12	12	5.8	3.54	2.76	3.98	90	70	101	4.21	107	4.19	1.90	F1/F2
SP7.2-12	12	7.2	5.94	2.56	3.70	151	65	94	3.94	100	5.07	2.30	F1/F2
SP7.5-12	12	7.5	5.94	2.56	3.70	151	65	94	3.94	100	5.40	2.45	F1/F2
SP9-12	12	9	5.94	2.56	3.70	151	65	94	3.94	100	5.84	2.65	F1/F2
SP12-12	12	12	5.94	3.86	3.66	151	98	93	3.86	98	8.71	3.95	F1/F2
SP18-12	12	18	7.13	2.99	6.57	181	76	167	6.57	167	12.67	5.75	NB(F3)/IT(F12)
SP20-12	12	20	7.13	2.99	6.57	181	76	167	6.57	167	13.66	6.20	NB(F3)/IT(F12)
SP22-12T	12	22	7.13	2.99	6.57	181	76	167	6.65	169	14.33	6.50	NB(F3)/IT(F12)
SP26-12	12	26	6.54	6.89	4.92	166	175	125	4.92	125	18.07	8.20	IT(F12)
SP30-12T	12	30	6.54	4.96	6.89	166	126	175	6.89	175	19.62	8.90	NB(F3)/IT(F8)
SP30-12RT	12	30	6.54	4.96	6.89	166	126	175	6.89	175	19.62	8.90	NB(F3)/IT(F8)
SP33-12	12	33	7.75	5.11	6.25	197	130	159	6.69	170	22.08	10.02	NB(F4)/IT(F8)
SP35-12	12	35	7.75	5.11	6.25	197	130	159	6.69	170	23.58	10.70	NB(F4)/IT(F8)
SP40-12	12	42	7.75	5.11	6.25	197	165	170	6.69	170	29.09	13.20	NB(F5)/IT(F8)
SP45-12	12	50	7.75	6.49	6.69	197	165	170	6.69	170	32.22	14.62	NB(F5)/IT(F8)
SP55-12	12	60	9.06	5.43	8.07	230	138	205	8.94	227	37.47	17.00	NB(F14)/IT(F8)
SP65-12	12	65	13.78	6.57	6.89	350	167	175	7.01	178	49.59	22.50	NB(F4)/IT(F8)

BATTERY TYPE	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (Ah) 20HR	DIMENSIONS						HT OVER TERMINAL		WEIGHT WITH ACID		TERMINAL
			L/in	W/in	H/in	L/mm	W/mm	H/mm	in	mm	lbs	kg	
SP85-12	12	85	13.78	6.57	6.89	350	167	175	7.01	178	54.53	24.74	NB(F4)/IT(F8)
SP75-12	12	80	10.20	6.61	8.19	259	168	208	9.06	230	52.90	24.00	NB(F14)/IT(F8)
SP90-12	12	100	12.01	6.61	8.19	305	168	208	9.06	230	65.02	29.50	NB(F14)/IT(F8)
SP100-12	12	100	12.99	6.81	8.54	330	173	217	8.74	222	67.22	30.50	IT(F8)/IT(F17)
SP120-12	12	125	16.14	6.93	8.82	410	176	224	8.90	226	83.75	38.00	IT(F17)
SP135-12	12	135	13.39	6.81	11.06	340	173	281	11.06	281	89.92	40.80	IT(F17)
SP150-12	12	155	19.09	6.69	9.45	485	170	240	9.45	240	105.79	48.00	IT(F17)
SP200-12(4D)	12	200	20.98	8.19	8.23	533	208	209	9.21	234	127.83	58.00	NB(F16)
SP220-12	12	220	20.55	9.41	8.58	522	239	218	8.78	223	147.01	66.70	IT(F17)
SP250-12(8D)	12	250	20.67	10.63	8.70	525	270	221	9.84	250	165.30	75.00	NB(F16)

UPS SERIES



- Maintenance-free
- High rate discharge performance
- Over 300cycles at 100% discharge

NEW	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (Watt) 5mins rate	DIMENSIONS						HT OVER TERMINAL		WEIGHT WITH ACID		TERMINAL
			L/in	W/in	H/in	L/mm	W/mm	H/mm	in	mm	lbs	kg	
UP1228W	12	28	5.28	2.64	2.36	134	67	60	2.60	66	2.98	1.35	F1/F2
UP1248W	12	48	3.54	2.76	3.98	90	70	101	4.21	107	4.19	1.90	F1/F2
UP1250W	12	50	3.54	2.76	3.98	90	70	101	4.21	107	4.36	1.98	F1/F2
UP1253W	12	53	5.94	2.56	3.70	151	65	94	3.94	100	5.07	2.30	F1/F2
UP1258W	12	58	5.94	2.56	3.70	151	65	94	3.94	100	5.40	2.45	F1/F2
UP1270W	12	70	5.94	2.56	3.70	151	65	94	3.94	100	5.91	2.68	F1/F2
UP1296W	12	96	5.94	3.86	3.66	151	98	93	3.86	98	8.71	3.95	F1/F2
UP12136W	12	136	7.13	2.99	6.57	181	76	167	6.57	167	12.67	5.75	NB(F3)/IT(F12)
UP12145W	12	145	7.13	2.99	6.57	181	76	167	6.57	167	13.22	6.00	NB(F3)/IT(F12)
UP12180W	12	180	7.13	2.99	6.57	182	77	173	6.81	173	14.33	6.50	NB(F3)/IT(F12)
UP12238W	12	238	6.54	6.89	4.92	166	125	175	4.92	125	22.92	10.40	NB(F3)/IT(F8)
UP12180W(H)	12	160	7.13	2.99	6.69	181	76	170	6.77	172	14.99	6.80	IT(F8)
UP12280W	12	280	7.75	5.11	6.25	197	130	159	6.69	170	24.02	10.90	NB(F4)/IT(F8)
15mins rate													
UPL12150W	12	150*	7.75	5.11	6.25	197	130	159	6.69	170	22.81	10.35	IT(F8)
UPL12200W	12	200*	9.06	5.43	8.07	230	138	205	8.94	227	40.55	18.40	NB(F14)/IT(F8)
UPL12290W	12	290*	10.20	6.61	8.19	259	168	208	8.19	208	55.98	25.40	NB(F14)/IT(F8)
UPL12340W	12	340*	12.05	6.61	8.19	306	168	208	8.19	208	67.00	30.40	NB(F14)/IT(F8)
UPL12390W	12	390*	12.99	6.81	8.46	330	173	215	8.66	220	68.10	30.90	IT(F17)
UPL12410W	12	410*	16.14	6.93	8.82	410	176	224	8.90	226	83.75	38.00	IT(F17)
UPL12500W	12	500*	13.39	6.81	11.06	340	173	281	11.18	284	99.18	47.00	IT(F17)
UPL12550W	12	550*	19.09	6.69	9.45	485	170	240	9.45	240	110.20	50.00	(F17)

*: NOMINAL CAPACITY (Watt) is based on 15mins rate

EV SERIES



- Designed for electric vehicles.
- High cycling life, and long service life.
- More than 500 cycles life time at 60% DOD.

NEW	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (Ah) 20HR	DIMENSIONS						HT OVER TERMINAL		WEIGHT WITH ACID		TERMINAL
			L/in	W/in	H/in	L/mm	W/mm	H/mm	in	mm	lbs	kg	
EV7.5-12	12	7.5	5.94	2.56	3.70	151	65	94	3.94	100	5.40	2.45	F1/F2
EV8.5-12	12	8.5	5.94	2.56	3.70	151	65	94	3.94	100	6.06	2.75	F1/F2
EV10-12S	12	9.5	5.94	2.56	4.41	151	65	112	4.67	119	7.05	3.20	F1/F2
EV12-12	12	12	5.94	3.86	3.66	151	98	93	3.86	98	8.97	4.07	F2/IT(F12)
EV13-12	12	13	5.94	3.86	3.66	151	98	93	3.86	98	9.26	4.20	F2/IT(F12)
EV14-12	12	14	5.94	3.86	3.66	151	98	93	3.86	98	9.37	4.25	F1/F2
EV15-12	12	15	5.94	3.86	3.66	151	98	93	3.86	98	10.14	4.60	F1/F2
6-DZM-14	12	14	5.94	3.86	3.98	151	98	101	4.17	106	9.26	4.20	F2
6-DZM-20	12	26	7.13	2.99	6.77	181	76	172	6.77	172	15.87	7.20	F2/IT(F12)
6-DZM-35	12	43	8.78	4.17	6.85	223	106	174	6.65	169	26.45	12.00	IT(F12)
EV28-12	12	28	6.54	6.89	4.92	166	175	125	4.92	125	19.84	9.00	NB(F3)/IT(F8)
EV33-12	12	33	7.76	5.12	6.26	197	130	159	6.25	159	22.04	10.00	NB(F4)/IT(F8)
EV35-12	12	35	7.76	5.12	6.26	197	130	159	6.25	159	23.58	10.70	NB(F4)/IT(F8)
EV36-12	12	35	7.76	5.12	6.26	197	130	159	6.25	159	23.58	10.70	NB(F4)/IT(F8)
EV38-12	12	38	7.76	5.12	6.26	197	130	159	6.25	159	25.13	11.40	NB(F4)/IT(F8)
EV40-12	12	42	7.76	6.50	6.69	197	165	170	6.69	170	31.30	14.20	NB(F5)/IT(F8)
EV45-12	12	45	7.76	6.50	6.69	197	165	170	6.69	170	32.18	14.60	NB(F5)/IT(F8)
EV50-12	12	50	7.76	6.50	6.69	197	165	170	6.69	170	33.06	15.00	NB(F5)/IT(F8)
EV55-12S	12	60	9.06	5.43	8.07	230	138	205	8.07	205	40.11	18.20	NB(F14)/IT(F8)
EV60-12	12	70	9.84	6.30	7.01	250	160	178	7.60	193	44.08	20.00	IT(F8)
EV75-12	12	80	10.20	6.61	8.19	259	168	208	8.19	208	55.10	25.00	NB(F14)/IT(F8)
EV90-12	12	100	12.05	6.61	8.19	306	168	208	8.19	208	65.02	29.50	NB(F14)/IT(F8)
EV100-12	12	110	12.99	6.69	8.43	330	170	214	8.43	214	68.32	31.00	NB(F16)/IT(F8)(F17)
EV200-6GC	6	210	10.20	7.05	9.65	259	179	245	10.75	273	65.02	29.50	NB
EV200-6	6	210	12.05	6.61	8.74	306	168	220	8.98	228	66.12	30.00	IT(F17)

UEV SERIES



- 30% increase in cycle life
- 30% decrease in charge time.
- more than 400 cycles life time at 100% DOD.

NEW	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (Ah) 20HR	DIMENSIONS						HT OVER TERMINAL		WEIGHT WITH ACID		TERMINAL
			L/in	W/in	H/in	L/mm	W/mm	H/mm	in	mm	lbs	kg	
UEV10-12S	12	9.5	5.94	2.56	4.41	151	65	112	4.67	119	7.05	3.20	F2
UEV12-12	12	12	5.94	3.86	3.66	151	98	93	3.86	98	8.97	4.07	F2/F12
U6-DZM-14	12	14	5.94	3.86	3.98	151	98	101	4.17	106	9.37	4.25	F2/F12
U6-DZM-24	12	24	7.13	2.99	6.77	181	76	172	6.77	172	15.87	7.20	F12
UEV26-12	12	26	6.54	6.89	4.92	166	175	125	4.92	125	19.84	9.00	F8
UEV35-12	12	35	7.76	5.12	6.26	197	130	159	6.25	159	23.14	10.50	F4/F8
UEV36-12	12	36	7.76	5.12	6.26	197	130	159	6.25	159	23.58	10.70	F4/F8
UEV45-12	12	45	7.76	6.50	6.69	197	165	170	6.69	170	32.18	14.60	F4/F8
UEV50-12	12	50	7.76	6.50	6.69	197	165	170	6.69	170	33.06	15.00	F4/F8
UEV55-12S	12	60	9.06	5.43	8.07	230	138	205	8.07	205	39.67	18.00	F14/F8
UEV60-12	12	70	9.84	6.30	7.01	250	160	178	7.60	193	44.08	20.00	IT(F8)
UEV75-12	12	80	10.20	6.61	8.19	259	168	208	8.19	208	55.10	25.00	F14/F8
UEV100-12	12	110	12.99	6.69	8.43	330	170	214	8.66	220	69.43	31.50	F17
UEV150-12	12	150	19.09	6.69	9.45	485	170	240	9.45	240	101.94	46.25	F17
UEV200-12	12	220	20.55	9.41	8.58	522	239	218	8.78	223	141.06	64.00	F17
UEV250-12	12	250	20.67	10.63	8.70	525	270	221	8.90	226	165.30	75.00	F16/F17
UEV200-6GC	6	210	10.20	7.05	9.65	259	179	245	10.75	273	65.02	29.50	F17
UEV200-6	6	210	12.05	6.61	8.74	306	168	222	8.98	228	66.12	30.00	F17



CHP SERIES

BATTERY TYPE	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (Ah) 20HR	DIMENSIONS						HT OVER TERMINAL		WEIGHT WITH ACID		TERMINAL
			L/in	W/in	H/in	L/mm	W/mm	H/mm	in	mm	lbs	kg	
CHP100-12FT	12	100	20.0	4.3	11.1	507	110	283	111.4	283.0	70.4	32.00	M8
CHP150-12FT	12	150	21.7	4.1	12.4	550	105	316	124.4	316	105.6	48.00	M8
CHP180-12FT	12	180	21.5	4.9	12.4	545	124	316	124.4	316	116.6	53.00	M8
CHP200-2	2	200	6.7	4.2	13.0	170	106	330	140.2	356	28.6	13.00	M8
CHP300-2	2	300	6.7	5.9	13.0	170	150	330	140.2	356	39.6	18.00	M8
CHP400-2	2	400	8.3	6.7	13.0	210	170	330	140.2	356	56.1	25.50	M8
CHP500-2	2	500	9.5	6.7	13.0	241	171	330	140.2	356	66.0	30.00	M8
CHP1000-2	2	1000	18.5	6.7	13.0	471	171	330	140.2	356	154.0	70.00	M8
CHP1500-2	2	1500	18.7	13.3	13.4	476	337	340	146.5	372	237.6	108.00	M8
CHP2000-2	2	1500	18.7	13.3	13.4	476	337	340	146.5	372	308.0	140.00	M8

Note

Date



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QUESTIONS?