

PRODUCT CATALOG

Taiwan Yuasa Battery Co., Ltd.

Taiwan Yuasa Battery Co., Ltd., has been manufacturing batteries in 1964 and we are the leading manufacturer for lead acid batteries.

TEL +886-2-29018261
FAX +886-2-29039626

ADD 24258 新北市新莊區福營路227巷11號
No.11, Ln.227, Fuying Rd., Xinzhuang Dist., New Taipei City



CONTENTS

04 HISTORY OF TAIWAN YUASA BATTERY CO., LTD.

06 TOPLITE PARTNERS

08 CORPORATE SOCIAL RESPONSIBILITY

12 MOTORCYCLE BATTERY

- 12 MOTORCYCLE BATTERY OVERVIEW
- 14 MOTORCYCLE BATTERY STANDARD TYPE HIGH PERFORMANCE
- 15 MOTORCYCLE BATTERY YT TYPE
- 16 MOTORCYCLE BATTERY TTZ TYPE
- 20 MOTORCYCLE BATTERY SPECIFICATIONS

30 AUTOMOTIVE BATTERY

- 30 AUTOMOTIVE BATTERY OVERVIEW
- 32 STANDARD TYPE (DRY) CMF II SMF AGM&EFB
- 35 AUTOMOTIVE BATTERY STANDARD TYPE (DRY CHARGED)
- 38 AUTOMOTIVE BATTERY CMF TYPE
- 40 AUTOMOTIVE BATTERY SMF TYPE
- 42 AUTOMOTIVE BATTERY SPECIFICATIONS



UL Certification

ISO Certification

HISTORY of TAIWAN YUASA BATTERY CO., LTD.

Taiwan Yuasa Battery Co., Ltd., has been the leading manufacturer of lead acid battery since 1964.

Exporting to almost all continents, TOPLITE brand batteries can be found from Taiwan to the world.

Taiwan Yuasa has been dedicated to develop the best quality product that are reliable and sustainable. TOPLITE will be the benchmark for us to shine to the world.

March of 1964

Asia Battery Co., Ltd. was founded and a technical cooperation was established between Asia Battery Co., Ltd. and Yuasa Battery Co., Ltd. of Japan.

October of 1966

Taiwan Yuasa Battery Co., Ltd. was founded via the investment of Asia Battery Co., Ltd. and Yuasa Battery Co., Ltd. of Japan.

January of 1971

Taichung subsidiary and Kaohsiung subsidiary companies were established.

March of 1975

The acquisition of the CNS batteries for automobiles and motorcycles from National Bureau of Standards of Ministry of Economic Affairs.

August of 1976

TOPLITE brand was established by Taiwan Yuasa Battery Co., Ltd.

December of 1988

I-Lan Plant started its operations.

July of 1995

I-Lan Plant was awarded with the ISO-9002 certificate by Bureau of Commodity Inspection & Quarantine.

February of 1996

Xinzhuan Plant was awarded with the ISO-9002 certificate by Bureau of Commodity Inspection & Quarantine.

December of 1997

I-Lan Plant was awarded with the Entela QS 9000 (ISO-9001) certificate.

July of 2000

I-Lan Plant was awarded with the Entela ISO-14001 certificate.

August of 2005

I-Lan Plant was awarded with the TUV PS ISO/TS 16949 : 2002 certificate.

March of 2010

I-Lan Plant was awarded with the ICTI certificate.

November of 2011

Xinzhuan Plant was awarded with the ISO-14001 : 2004 certificate.

December of 2016

Vietnam Plant Groundbreaking ceremony.

January of 2020

Vietnam Plant started its operation.

PARTNERS



CORPORATE SOCIAL RESPONSIBILITY

01 Developing fair, transparent, and sound business, and anti-corruption.

- A. Obey laws
- B. Advocates fair trading and fair competition
- C. Complete management of classified information
- D. Respect intellectual property
- E. Provide corporate transparency
- F. Forbid governmental lobbying

02 Respect for human rights.

- A. Zero tolerance policy in discrimination
- B. Respect diversity
- C. Respect individual personality
- D. Respect labor rights
- E. Forbid child labor
- F. Avoid activities that infringe human rights

03 Conservation and improvement of adequate working environment.

- A. Sustain safe and hygienic working environment
- B. Adequate worktime, ensure minimum wage and forbid inappropriate adjustment of salary
- C. Performs labor training and appropriate career evaluation
- D. Respect diverse working forms
- E. Provide fair working opportunities



Beside devoting to lead acid battery manufacturing, we also respect and comply with CSR. (Corporate Social Responsibility)

In Taiwan Yuasa, all employees understand CSR policy and take part in CSR code of conduct.

Through fair, transparent and sound business route, Taiwan Yuasa contributes to sustainable development of society and environment.

04 Fulfillment of our responsibilities to provide safe and secure products and services.

- A. Regard quality and safety of product as priority
- B. Provide safety information of product
- C. Emergent response to accidents

05 Global environmental conservation.

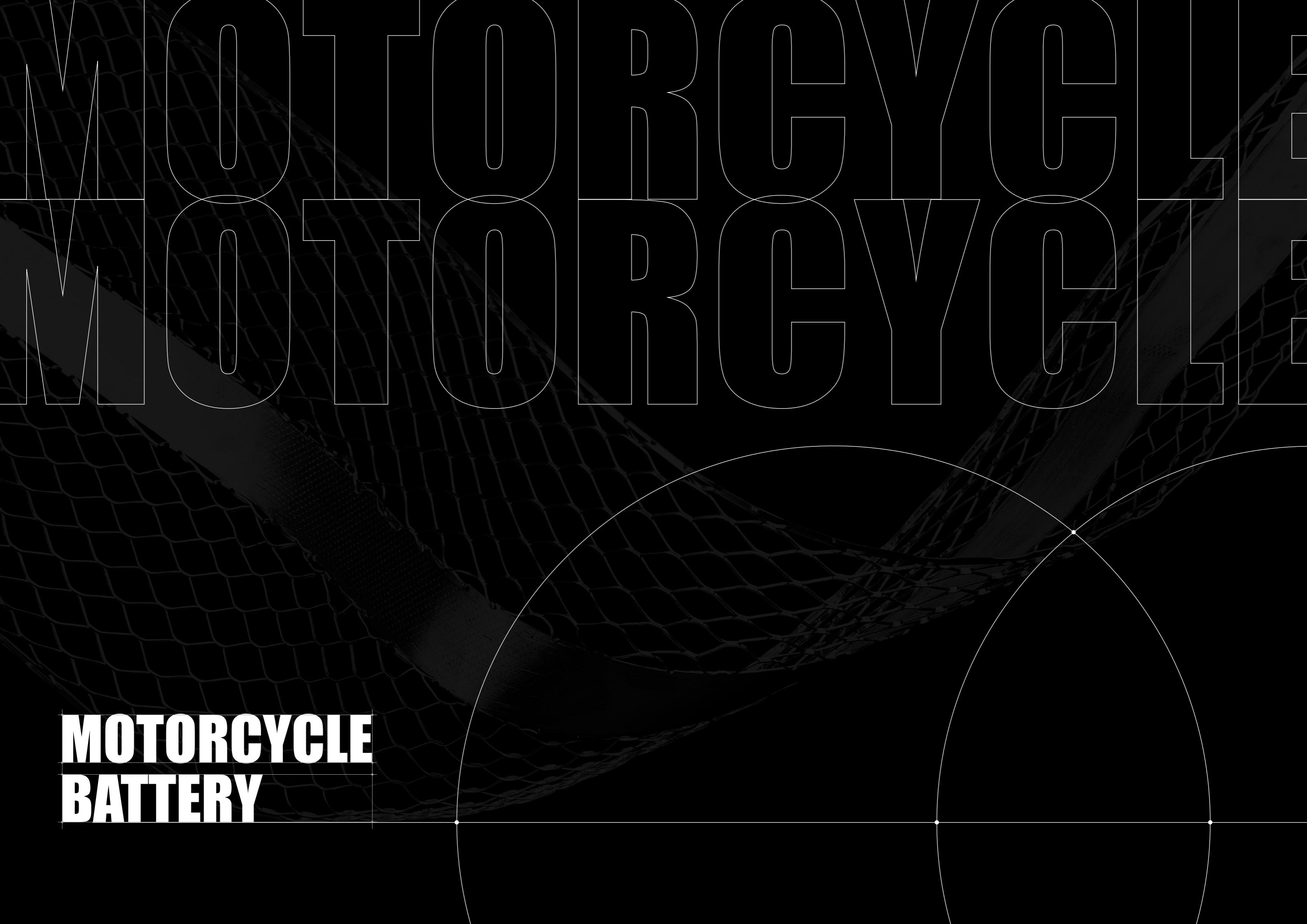
- A. Advocate sustainability
- B. Provide sustainable product

06 Building better relationships with local communities.

- A. Contribute to regional sustainable development
- B. Derive from regional community, give back to regional community

07 Ensuring social responsibility within our supply chain.

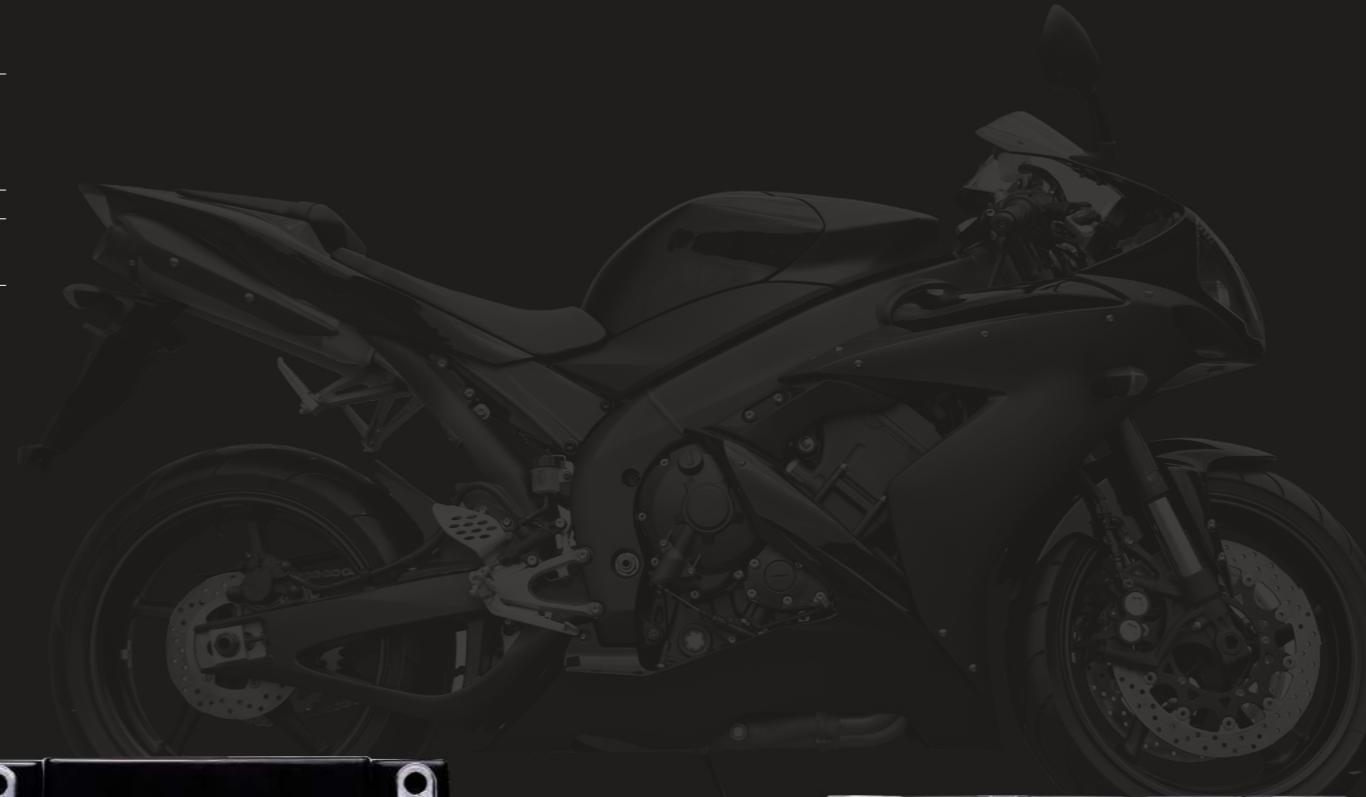
- A. CSR policy review on supplier



MOTORCYCLE
BATTERY

OVERVIEW

MOTORCYCLE BATTERY

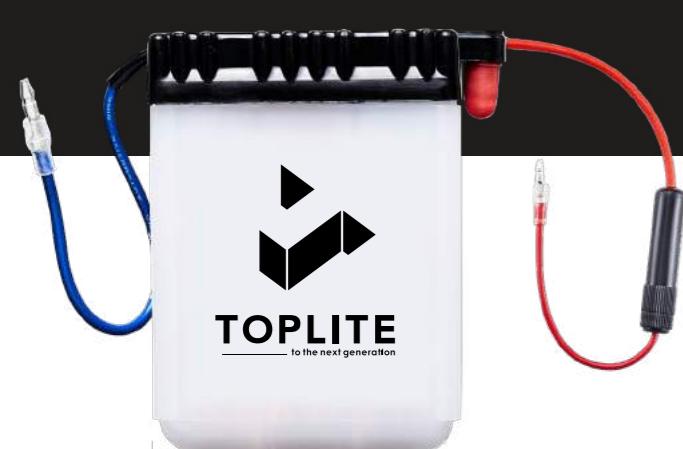


Taiwan Yuasa produces and sells motorcycle batteries for more than 50 years.

Premium quality, long life and unmatched reliability are the market response of our motorcycle batteries.

The full range of motorcycle batteries can satisfy the application of motorcycle, ATVs, UTVs, snowmobiles, personal watercrafts, scooters and more.

That's why we are always the top one choice for most of OEM.



STANDARD TYPE (6N & 12N)

- Low maintenance
- Pack type :
Dry charged pack: contains 1 battery, acid not included
Combi pack: contains 1 battery and 1 acid pack
- Large-variety of models
6V & 12V varieties



STANDARD TYPE- HIGH PERFORMANCE (YB/ Y50/ Y60)

- 30% more cranking power than conventional types
- Low maintenance
- Pack type :
Dry charged pack: contains 1 battery, acid not included
Combi pack: contains 1 battery and 1 acid pack
- Application
Personal watercraft, snow mobiles and ATVs



YT TYPE

- Sealed, non-spillable design
- OEM parts
- Maintenance free
- Special design for easy acid filling
- Pack type :
Combi pack: contains 1 battery and 1 acid pack
Wet charged pack: contains 1 battery, acid filling and charged
- Application
Motorcycles, scooters, ATVs, riding mowers and personal watercraft



TTZ TYPE

- High performance compact size
- Sealed, non-spillable design
- OEM parts
- Maintenance free
- Special design for easy acid filling
- Pack type :
Combi pack: contains 1 battery and 1 acid pack
Wet charged pack: contains 1 battery, acid filling and charged
- Application
Motorcycle, utility vehicles, scooters, ATVs, riding mowers, personal watercraft and snowmobile.

MOTORCYCLE BATTERY

STANDARD TYPE

HIGH PERFORMANCE

(YB/Y50/Y60)

- **Special Thin Separator**
Packed in extra plates, 30% more cranking power than standard types engineered to protect against corrosion, withstand vibration, and deliver high cranking power.

- **Lead-calcium technology**
Reduces water loss by 66% compared to lead antimony alloy.

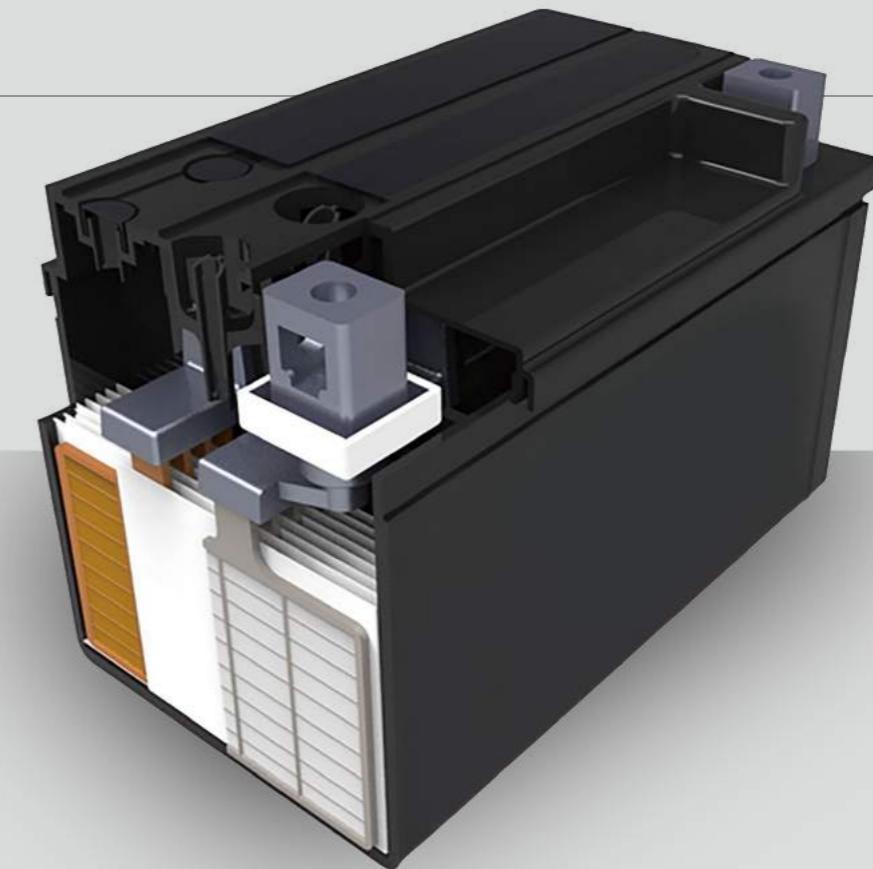
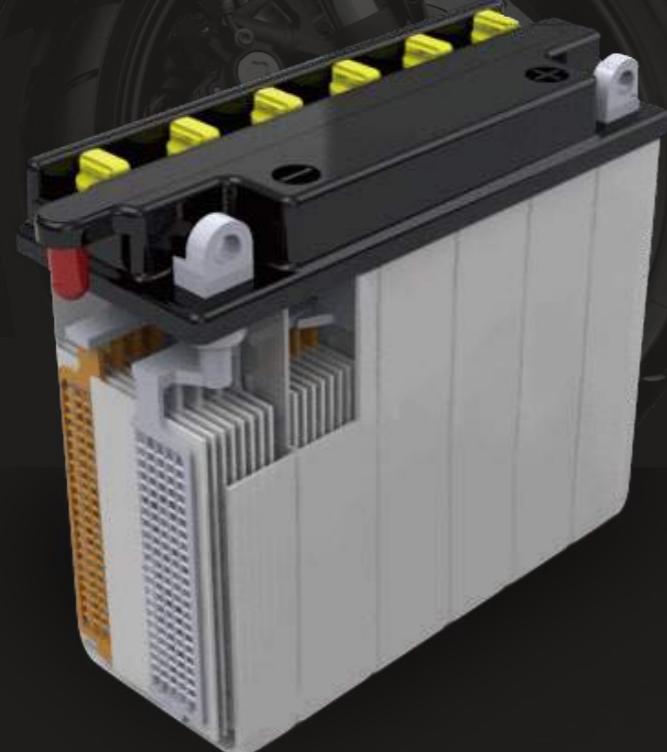
- **Polypropylene cover and container**
Superior resistance in extreme conditions of cold and heat compare to ABS container translucent container, easy to check electrolyte volume.

- **Heavy duty glass mat**
Resists damage from vibration.

- **Through-the-wall intercell connector**
Minimizes internal resistance, maximizes power.

- **Sulphate stopper**
Curbs plates sulphation and provides longer life.

The high tech, power-boosting design also makes Toplite High Performance series ideal for accessory-laden touring bikes and modified vehicles.



MOTORCYCLE

BATTERY

YT TYPE

VRLA(Valve Regulated Lead Acid) means a battery that's perfect for people who have better things to do than battery maintenance! Our permanently sealed VRLA battery never needs refilling.

- **Premium absorbed glass mat (AGM) and advanced lead-calcium technology**
Boosted up starting power in cold climate. Lower self discharge compared to standard type.

- **Sealed, non-spillable design**

- **OEM Parts**

- **Engineered to protect**
Against corrosion, withstand vibration, and deliver high cranking power.

- **Maintenance free VRLA**
Never add water and less self-discharging in standby or storage mode.

- **Polypropylene cover and container**
Superior resistance in extreme conditions of cold and heat compare to ABS container.

- **Special design for easy acid filling**
The bevel design of cell filler ports can break the foil seals of electrolyte container easily. The convection design shorten the time of electrolyte filling.

- **Flame arrestor**
Prevent external ignition sources from entering the battery.

TTZ TYPE

- High performance compact size
- Premium absorbed glass mat(AGM) technology

Absorbed Glass Matt separators absorb the electrolyte and make the battery spill proof. The valve regulated design eliminates water loss and the need for refilling.

• Heat sealed case to cover

Protects against leakage and corrosion and provides extra strength and durability.

• OEM Parts

• Special active material

Compounded to withstand vibration, prolongs the battery life in storage and provides reliable starting power when needed.

• Polypropylene cover and container

Superior resistance in extreme conditions of cold and heat compare to ABS container

With profound experience and innovation for motorcycle batteries, TOPLITE TTZ serious, a compact, lightweight and high CCA battery is launched.

TOPLITE TTZ serious is designed to deliver exactly what powersports enthusiasts really needs,

- * Enhance starting power
- * Long battery life
- * Superior reliability
- * Minimum performance

Because Toplite TTZ series is small, light and more volume efficient, this series provides greater starting power for, minimum space.

Non Spillable design is completely spill proof enabling multi-angle fitment, never require refilling and maintenance free during complete lifetime.

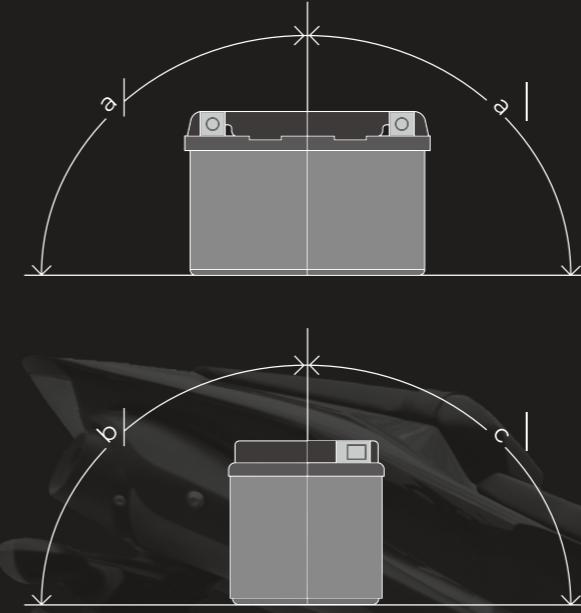


Mounting angle comparison chart

After third-party testing, TOPLITE TTZ battery can be regarded as Non-Spillable battery due to the unique spill-proof design.

And the mounting angle of TOPLITE TTZ serious is same as other brand's YTZ serious.

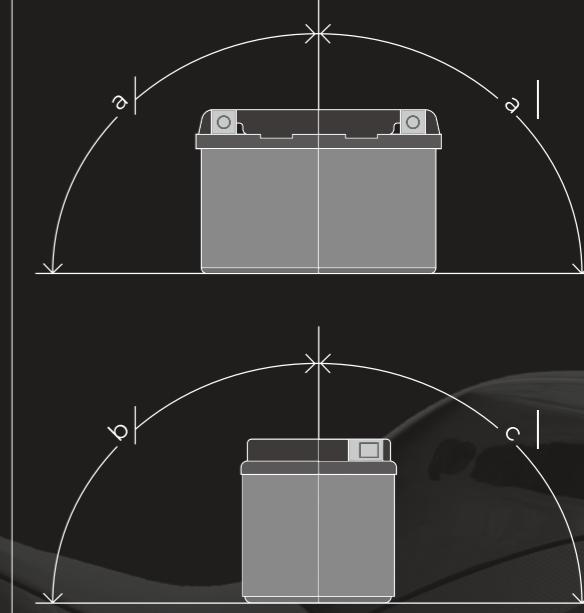
YTZ mounting angle



YTZ series

YTZ series	Mounting Angle		
	a°	b°	c°
YTZ7S	40	90	15
YTZ10S	40	90	15
YTZ12S	40	90	15
YTZ14S	40	90	15

TOPLITE TTZ mounting angle



TTZ series

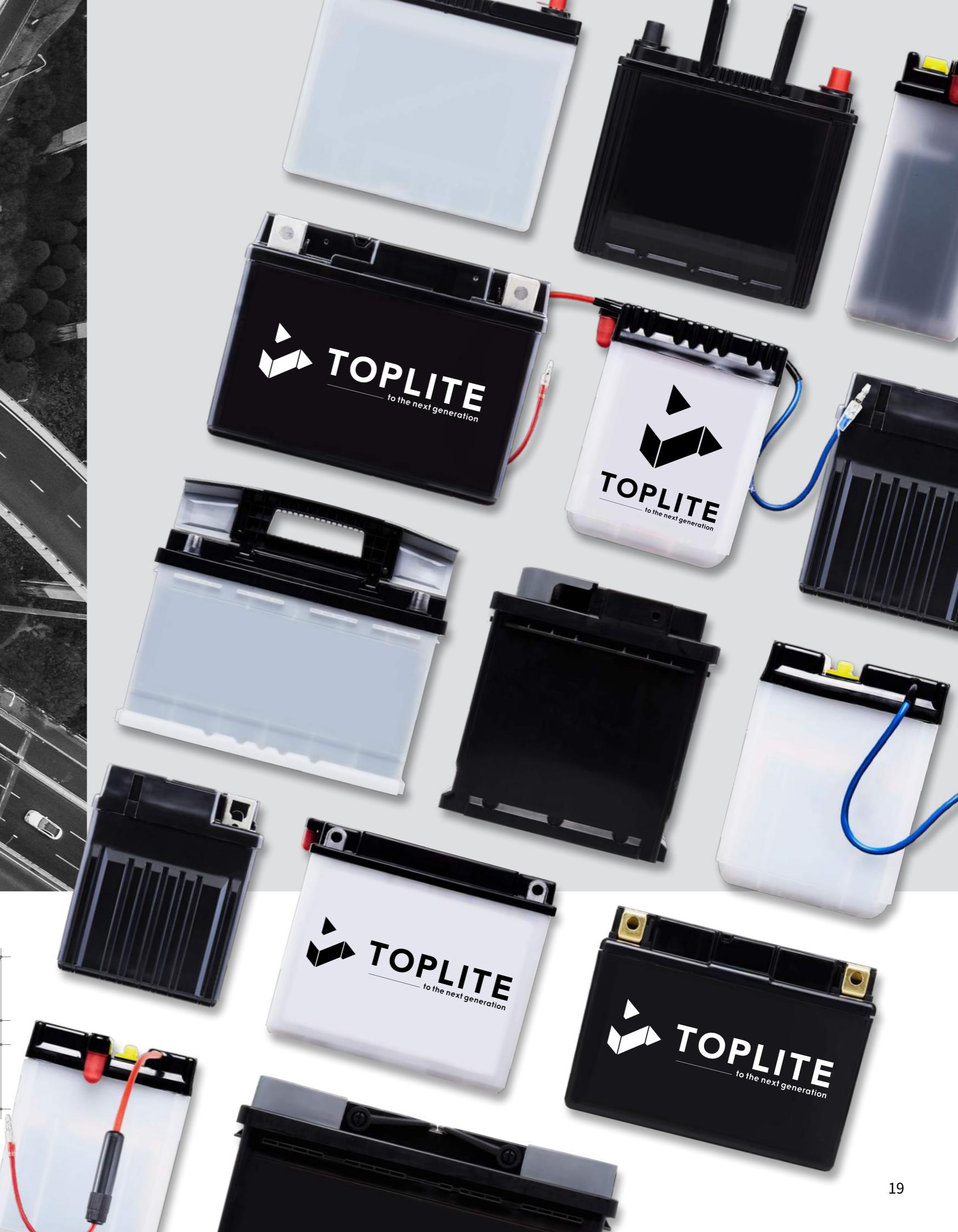
TTZ series	Mounting Angle		
	a°	b°	c°
TTZ7S	40	90	15
TTZ10S	40	90	15
TTZ12S	40	90	15
TTZ14S	40	90	15

Notes:

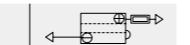
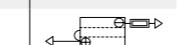
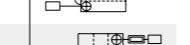
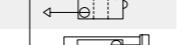
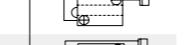
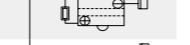
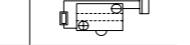
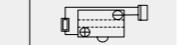
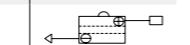
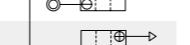
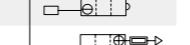
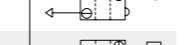
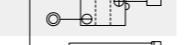
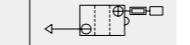
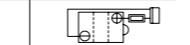
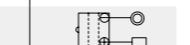
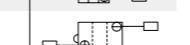
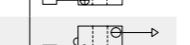
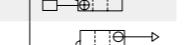
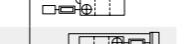
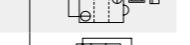
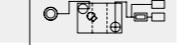
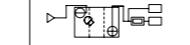
- The above mentioned angles show the allowance from the centre position of the battery.
- The above mentioned angles are evaluated by up&down single vibration only.
- WC=wet charged (contains 1 battery acid filled and charged).



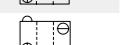
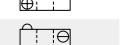
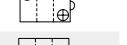
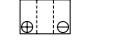
MOTORCYCLE BATTERY SPECIFICATIONS



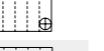
MOTORCYCLE BATTERY SPECIFICATIONS

Model	Pack Type	Voltage	Capacity Ah (10HR)	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)			Weight Without Acid (Kg)	Weight With Acid (Kg)	Acid Volume (Litres)	Charge Current (Amps)	Terminal Type (refer to page 27)	Assembly Figure
						L	W	H						
6N2-2A	DC	6	2	2.1	-	70	47	96	0.4	0.5	0.11	0.2	-	
6N2-2A-1	DC	6	2	2.1	-	70	47	96	0.4	0.5	0.11	0.2	-	
6N2-2A-3	DC	6	2	2.1	-	70	47	96	0.4	0.5	0.11	0.2	-	
6N2-2A-4	DC/CP	6	2	2.1	-	70	47	96	0.4	0.5	0.11	0.2	-	
6N2-2A-8	DC	6	2	2.1	-	70	47	96	0.4	0.5	0.11	0.2	-	
6N2-2A-9	DC	6	2	2.1	-	70	47	96	0.4	0.5	0.11	0.2	-	
6N2A-2C	DC	6	2	2.1	-	70	47	106	0.4	0.5	0.11	0.2	-	
6N2A-2C-1	DC	6	2	2.1	-	70	47	106	0.4	0.5	0.11	0.2	-	
6N2A-2C-3	DC	6	2	2.1	-	70	47	106	0.4	0.5	0.11	0.2	-	
6N2A-2C-4	DC	6	2	2.1	-	70	47	106	0.4	0.5	0.11	0.2	-	
6N4-2A	DC/CP	6	4	4.2	-	71	71	96	0.5	0.8	0.18	0.4	-	
6N4-2A-2	DC/CP	6	4	4.2	-	71	71	96	0.5	0.8	0.18	0.4	-	
6N4-2A-3	DC/CP	6	4	4.2	-	71	71	96	0.5	0.8	0.18	0.4	-	
6N4-2A-4	DC/CP	6	4	4.2	-	71	71	96	0.5	0.8	0.18	0.4	-	
6N4-2A-5	DC/CP	6	4	4.2	-	71	71	96	0.5	0.8	0.18	0.4	-	
6N4-2A-7	DC	6	4	4.2	-	71	71	96	0.5	0.8	0.18	0.4	-	
6N4-2A-8	DC	6	4	4.2	-	71	71	96	0.5	0.8	0.18	0.4	-	
6N4A-4D	DC/CP	6	4	4.2	-	61	57	131	0.7	1	0.17	0.4	-	
6N4B-2A	DC/CP	6	4	4.2	-	102	48	97	0.71	0.93	0.17	0.4	-	
6N4B-2A-3	DC/CP	6	4	4.2	-	102	48	97	0.71	0.93	0.17	0.4	-	
6N4B-2A-4	DC	6	4	4.2	-	102	48	97	0.71	0.93	0.17	0.4	-	
6N4B-2A-5	DC	6	4	4.2	-	102	48	97	0.71	0.93	0.17	0.4	-	
6N4C-1B	DC/CP	6	4	4.2	-	71	71	105	0.7	0.8	0.17	0.4	-	
6N5.5-1D	DC/CP	6	5.5	5.8	-	90	70	100	0.7	1.1	0.27	0.55	-	
6N6-1B	DC	6	6	6.3	-	99	57	121	0.7	1.2	0.25	0.6	-	
6N6-1B-1	DC	6	6	6.3	-	99	57	121	0.7	1.2	0.25	0.6	-	
6N6-3B	DC/CP	6	6	6.3	-	99.5	57.5	121	0.7	1.3	0.25	0.6	6	
6N6-3B-1	DC/CP	6	6	6.3	-	99.5	57.5	111	0.7	1.3	0.25	1.1	6	
6N6-1D	DC	6	6	6.3	-	99	57	111	0.9	1.2	0.25	0.6	-	
6N6-1D-2	DC/CP	6	6	6.3	-	99	57	111	0.9	1.2	0.25	0.6	-	
B39-6	DC	6	7	7.4	-	126	48	126	1.3	1.7	0.27	0.7	6	

MOTORCYCLE BATTERY SPECIFICATIONS

Model	Pack Type	Voltage	Capacity Ah (10HR)	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)			Weight Without Acid (Kg)	Weight With Acid (Kg)	Acid Volume (Litres)	Charge Current (Amps)	Terminal Type (refer to page 27)	Assembly Figure
						L	W	H						
B49-6	DC/CP	6	8	8.4	-	91	83	161	1.5	2.1	0.47	0.8	6	
6N11-2D	DC/CP	6	11	11.6	-	150	70	100	1.4	2	0.39	1.1	6	
6YB11-2D	DC	6	11	11.6	-	150	70	100	1.4	2	0.39	1.1	6	
6N11A-1B	DC/CP	6	11	11.6	-	121.4	61.5	131	1.6	2.1	0.36	1.1	6	
6N11A-3A	DC/CP	6	11	11.6	-	121.4	61.5	131	1.6	2.1	0.36	1.1	6	
6N11A-4	DC	6	11	11.6	-	121.4	61.5	131	1.6	2.1	0.36	1.1	6	
6N12A-2C	DC	6	12	12.6	-	156	57	116	1.7	2	0.5	1.2	9	
B54-6	DC	6	12	12.6	-	156	57	116	1.7	2.3	0.5	1.2	6	
6N12A-2D	DC	6	12	12.6	-	156	57	116	1.7	2.3	0.5	1.2	6	
B38-6A	DC/CP	6	14	14.7	-	119	83	161	2.1					

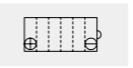
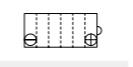
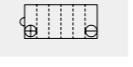
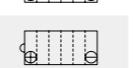
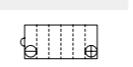
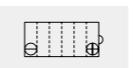
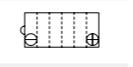
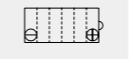
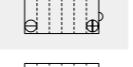
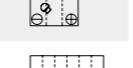
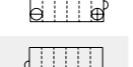
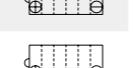
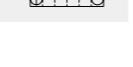
MOTORCYCLE BATTERY SPECIFICATIONS

Model	Pack Type	Voltage	Capacity Ah (10HR)	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)			Weight Without Acid (Kg)	Weight With Acid (Kg)	Acid Volume (Litres)	Charge Current (Amps)	Terminal Type (refer to page 27)	Assembly Figure
						L	W	H						
12N11-3B	DC/CP	12	11	11.6	109	136	91	156	3.2	3.6	0.75	1.1	6	
12N11-3A	DC	12	11	11.6	109	136	91	156	3.2	3.6	0.75	1.1	8	
12N11-3A-1	DC/CP	12	11	11.6	109	136	91	156	3.2	3.6	0.75	1.1	8	
12N12-3B	DC	12	12	12.6	108	202	76	134	3.1	4.4	0.78	1.2	6	
12N12A-4A-1	DC/CP	12	12	12.6	108	135	81	161	3.1	3.7	0.73	1.2	6	
12N14-3A	DC/CP	12	14	14.7	125	135	90	167	3.5	4.5	0.85	1.4	8	
12N18-3	DC/CP	12	18	18.9	140	206	91	163	5	6.5	1.17	1.8	6	
12N24-3A	DC	12	24	25.3	200	185	125	177	5.8	7.9	1.7	2.4	3	
12N24-3	DC	12	24	25.3	200	185	125	177	5.2	7.9	1.8	2.4	3	
12N24-4	DC/CP	12	24	25.3	200	184	124	179	5.2	7.6	1.8	2.4	3	
YHD-12	DC	12	29	30.5	200	206	131	164	8	8.3	1.8	2.9	9	
12N7A-3A	DC/CP	12	7	7.4	85	161	61	131	2	2.6	0.5	0.7	6	
12N7A-4A		12	7	7.4	85	161	61	131	2	2.6	0.5	0.7	6	
12N9-4B		12	9	9.5	80	157	76	140	2.3	3.0	0.57	0.9	6	
12N16-3B	DC	12	16	16.8	215	176	101	156	3.5	5	1.15	1.6	6	
12N16-4B	DC	12	16	16.8	215	176	101	156	3.5	5	1.15	1.6	6	
YB2.5L-C	DC/CP	12	2.5	2.6	15	81	71	106	0.8	1	0.26	0.3	-	
YB2.5L-C-1	DC	12	2.5	2.6	15	81	71	106	0.8	1	0.26	0.3	-	
YB2.5L-C-2	DC	12	2.5	2.6	15	81	71	106	0.8	1	0.26	0.3	-	
YB3L-A	DC/CP	12	3	3.2	25	99	57	111	1.1	1.3	0.23	0.3	6	
YB3L-B	DC/CP	12	3	3.2	25	99	57	111	1.1	1.3	0.23	0.3	6	
YB4L-A	DC/CP	12	4	4.2	45	121	71	93	1.2	1.5	0.27	0.4	5	
YB4L-B	DC/CP	12	4	4.2	45	121	71	93	1.2	1.5	0.27	0.4	5	
YB5L-B	DC/CP	12	5	5.3	60	121	61	131	1.4	2	0.39	0.5	6	
YB5L-B1	DC/CP	12	5	5.3	60	121	61	131	1.4	2	0.39	0.5	6	
YB5L-B2	DC/CP	12	5	5.3	60	121	61	131	1.4	2	0.39	0.5	6	
YB6L-B	DC/CP	12	6	6.3	65	138.5	73.5	101	1.4	2.1	0.39	0.6	6	
YB7-A	DC/CP	12	8	8.4	75	137	76	134	2.1	3	0.56	0.8	6	
YB7-A-1	DC/CP	12	8	8.4	75	137	76	134	2.1	3	0.56	0.8	6	
YB7-A-2	DC/CP	12	8	8.4	75	137	76	134	2.1	3	0.56	0.8	6	
YB7L-B	DC/CP	12	8	8.4	75	137	76	134	2.1	3	0.56	0.8	6	

MOTORCYCLE BATTERY SPECIFICATIONS

Model	Pack Type	Voltage	Capacity Ah (10HR)	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)			Weight Without Acid (Kg)	Weight With Acid (Kg)	Acid Volume (Litres)	Charge Current (Amps)	Terminal Type (refer to page 27)	Assembly Figure
						L	W	H						
YB7L-B2	DC/CP	12	8	8.4	75	137	76	134	2.1	3	0.56	0.8	4	
YB7-B	DC/CP	12	8	8.4	75	137	76	134	2.1	3	0.56	0.8	6	
YB7B-B	DC/CP	12	7	7.4	85	151	61	131	2	3.1	0.5	0.7	6	
YB7B-A	DC/CP	12	7	7.4	85	151	61	131	2	3.1	0.5	0.7	6	
YB7BL-A	DC/CP	12	7	7.4	85	151	61	131	2	3.1	0.5	0.7	6	
YB7BL-A1	DC/CP	12	7	7.4	85	151	61	131	2	3.1	0.5	0.7	6	
YB7C-A	DC/CP	12	8	7.4	75	131	91	115	2.1	2.9	0.6	0.8	3	
YB9A-A	DC/CP	12	9	9.5	100	137	76	156	2.3	3.1	0.59	0.9	6	
YB9-B	DC/CP	12	9	9.5	100	137	76	140	2.2	3.1	0.59	0.9	6	
YB9L-B	DC/													

MOTORCYCLE BATTERY SPECIFICATIONS

Model	Pack Type	Voltage	Capacity Ah (10HR)	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)			Weight Without Acid (Kg)	Weight With Acid (Kg)	Acid Volume (Litre)	Charge Current (Amps)	Terminal Type (refer to page 27)	Assembly Figure
						L	W	H						
YB16-B	DC/CP	12	19	20	215	176	101	156	4.6	6.3	1.2	1.9	6	
YB16L-B	DC/CP	12	19	20	215	176	101	156	4.7	6.3	1.2	1.9	6	
YB16B-A	DC	12	16	16.8	207	161.5	91	162	3.9	5.1	1	1.6	4	
YB16B-A1	DC/CP	12	16	16.8	207	161.5	91	162	3.9	5.1	1	1.6	7	
YB16CL-B	DC/CP	12	19	20	215	176	101	176	4.6	6.1	1.24	1.9	5	
YB18-A	DC	12	18	18.9	215	181.5	91.5	163	4.3	5.8	1.1	1.8	7	
YB18L-A	DC/CP	12	18	18.9	215	181.5	91.5	163	4.3	5.8	1.1	1.8	7	
Y50-N18A-A	DC/CP	12	20	21.1	240	206	91	177	4.8	6.5	1.46	2	7	
Y50-N18L-A	DC/CP	12	20	21.1	240	206	91	163	4.7	7.4	1.46	2	7	
Y50-N18L-A3	DC	12	20	21.1	240	206	91	163	4.7	7.4	1.46	2	4	
SY50-N18L-AT	DC/CP	12	20	21.1	240	206	91	163	4.7	6.5	1.46	2	7	
Y50-N18L-A2	DC/CP	12	20	21.1	240	206	91	163	4.7	6.5	1.46	2	4	
Y60-N24-A	DC	12	28	29.5	241	185	125	171	5.8	8.6	1.7	2.8	3	
Y60-N24L-A	DC/CP	12	28	29.5	241	185	125	171	5.8	8.6	1.7	2.8	3	
51814	DC/CP	12		18	100	186	82	171	4.5	5.6	0.95	1.8	10	
51913	DC/CP	12		19	100	186	82	171	4.5	5.6	0.95	1.9	10	
52015	DC	12		20	110	186	82	171	4.5	5.6	1	2	10	
52515	DC/CP	12		25	130	186	129	171	5.3	8.4	1.7	2.5	10	
53030	DC/CP	12		30	180	186	129	171	6.1	9.4	1.6	3	10	
B23-12	DC/CP	12	12	12.6	108	212	76	134	2.1	3.1	0.78	1.2	6	
B36-8	DC/CP	8	4	14.7	-	99	57	111	0.74	1.8	0.8	0.4	6	
12N5S-3B		12	5	5.3	60	131	61	131	1.43	1.9	0.4	0.5	6	
12N7-3A	DC/CP	12	7	7.4	70	147	76	134	2.1	2.7	0.5	0.7	6	
12N7B-4A	DC	12	7	7.4	85	161	61	131	1.93	2.6	0.5	0.7	6	
12N7A-4B	DC	12	7	7.4	85	161	61	131	2.1	2.7	0.5	0.7	6	

MOTORCYCLE BATTERY SPECIFICATIONS

Type	Voltage(V)	Capacity(AH)		CCA (-18°C)	Dimensions (± 2mm)			Weight Without Acid (Kg)	Weight With Acid (Kg)	Electrolyte approx.(L)	Charge current.(A)	Terminal Type (refer to page 27)
		10HR	20HR		L	W	H					
YT4L-BS	12	3	3.2	40	113	70	85	1.3	1.4	0.18	0.3	5
YT5L-BS	12	4	4.2	45	113	70	105	1.5	1.8	0.24	0.4	5
YTX4L-BS	12	3	3.2	50	113	70	85	1.3	1.4	0.18	0.3	5
YTX5L-BS	12	4	4.2	80	113	70	105	1.5	1.8	0.24	0.5	5
YTX7A-BS	12	6	6.3	105	150	87	93	2.1	2.6	0.33	0.7	5
YTX7L-BS	12	6	6.3	100	113	70	130	2.1	2.5	0.33	0.6	5
YTX9-BS	12	8	8.4	135	150	87	105	2.5	3	0.4	0.8	5
YTX12-BS	12	10	10.5	180	150	87	130	3.3	4	0.6	1.2	5
YTX14-BS	12	12	12.6	200	150	87	145	3.7	4.6	0.69	1.4	5
YTX14L-BS	12	12	12.6	200	150	87	145	3.7	4.6	0.69	1.4	5
YTX14AH-BS	12	12	12.6	210	134	89	166	3.7	4.7	0.78	1.4	4-5
YTX14AHL-BS	12	12	12.6	210	134	89	166	3.7	4.7	0.78	1.4	4-5
YTX16-BS	12	14	14.7	230	150	87	161	4.2	5.2	0.78	1.4	4-5
YTX16-BS-1	12	14	14.7	230	150	87	161	4.2	5.2	0.78	1.4	1
YTX20A-BS	12	17	17.8	270	150	87	161	4.2	5.2	0.78	1.7	5
YTX20-BS	12	18	18.9	270	175	87	155	5.2	6.4	0.93	1.8	4
YTX20L-BS	12	18	18.9	270	175	87	155	5.2	6.4	0.93	1.8	4
YTX20H-BS	12	18	18.9	310	175	87	155	5.2	6.4	0.93	1.8	4
YTX20HL-BS	12	18	18.9	310	175	87	155	5.2	6.4	0.93	1.8	4
YTX24HL-BS	12	21	22.1	350	205	87	155	5.9	7.5	1.13	2.1	4
YT7B-BS	12	6.5	6.8	110	150	65	93	2.1	2.5	0.3	0.65	11
YT9B-BS	12	8	8.4	120	150	69	105	2.5	3	0.4	0.8</td	

MOTORCYCLE BATTERY SPECIFICATIONS

Type	Voltage(V)	Capacity(AH)		CCA (-18°C)	Dimensions (± 2mm)			Weight Without Acid (Kg)	Weight With Acid (Kg)	Electrolyte approx.(L)	Charge current.(A)	Terminal Type (refer to page 27)
		10HR	20HR		L	W	H					
TTZ Type												
TTZ7SL	12	6	6.3	90	113	70	105	-	2.3	-	0.7	11
TTZ6V	12	5	5.3	90	113	70	105	-	1.9	-	0.5	5
TTZ7V	12	6	6.3	105	113	70	120	-	2.24	-	0.6	5
TTZ8V	12	7	7.4	120	113	70	130	-	2.3	-	0.7	5
TTZ10S	12	8.6	9.1	190	150	87	93	2.6	3.1	0.4	0.9	11
TTZ12S	12	11	11.6	210	150	87	110	3.2	3.8	0.52	1.1	11
TTZ14S	12	11.2	11.8	230	150	87	110	3.2	3.8	0.52	1.1	11

BATTERY TERMINAL TYPE

No.	Front	Side	Top	Figure
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				



AUTOMOTIVE
BATTERY

OVERVIEW

AUTOMOTIVE BATTERY



Standard type (Dry charged)

- Low maintenance
- Short circuit prevented under heavy vibration
- Perfect fit for heavy duty and long distance driving
- Capacity : 26Ah~230Ah

CMF II

- Maintenance free
- Suitable for all climate
- Fits all Japanese and Korean car model
- Easy carry design with handle
- Flame arrestor installed
- Capacity : 33Ah~90Ah

SMF

- Upgraded design for maintenance free with sealed double lid
- Maintenance free
- Fits all Japanese and Korean car model
- Easy carry design with handle
- Flame arrestor installed
- Capacity: 33Ah~230Ah

AGM & EFB

- Latest technology for advanced vehicles with start-stop
- Absolutely maintenance free- leakage, spill and vibration proof
- Optimum starting power and maximum capacity
- High cycling durability
- Reduced fuel consumption & lower emissions
- Flexible installation and safe handling
- Extra long service life
- Large-variety of models
- Capacity : 60Ah~230Ah

Every year, Taiwan Yuasa offers more than 1.4 million automotive batteries for OEM, OES and AFM.

We keep development and innovation to keep up with the trend of modern cars.

As a qualified supplier of OEM, we always provide the high quality automotive batteries with original specification.

Full range of product makes every driver to find the best source of power for every car.

AUTOMOTIVE BATTERY

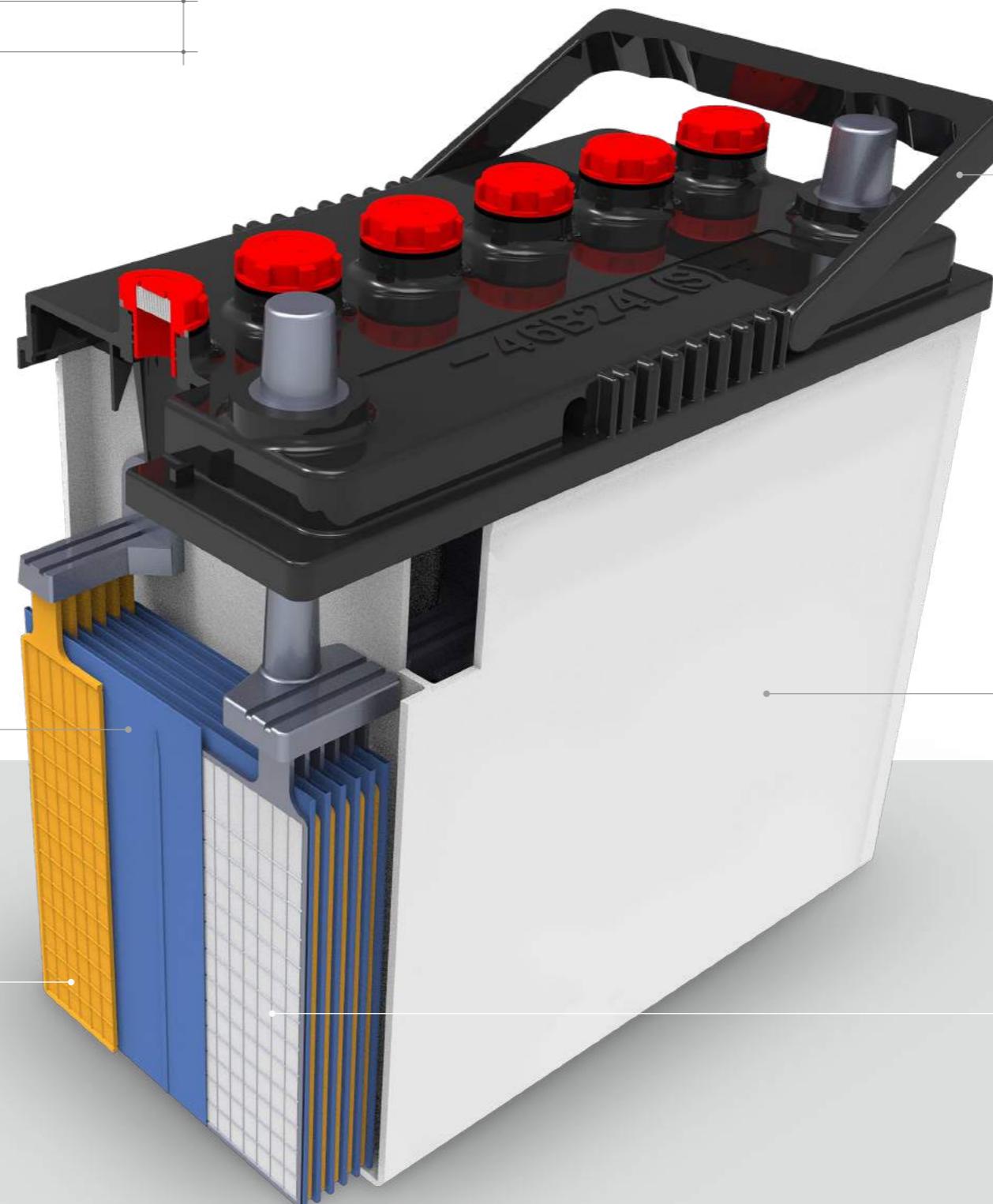
STANDARD TYPE

(DRY CHARGED)

TOPLITE Standard automotive batteries meet the demand of vehicles which require water top-ups during service life.

The separator design and high product quality make the battery operate perfectly even on bumpy road or long driving.

Full product line offers suitable options for all trucks and buses.



01 Separator

Enveloped separator prevents the short circuit and extends the battery life. It also reduces the internal resistance and maximizes the discharge output.

05 Enhanced active material

For higher endurance and better durability.

03 Carry handle

Ergonomic design provides a thicker grooved carry handle for comfort.

04 Polypropylene Cover And Container

Superior resistance in extreme conditions of cold and heat compare to ABS container translucent container, easy to check electrolyte volume.

02 Special plate design

Promoting faster recharging and reliable starting power in all real conditions.

AUTOMOTIVE BATTERY

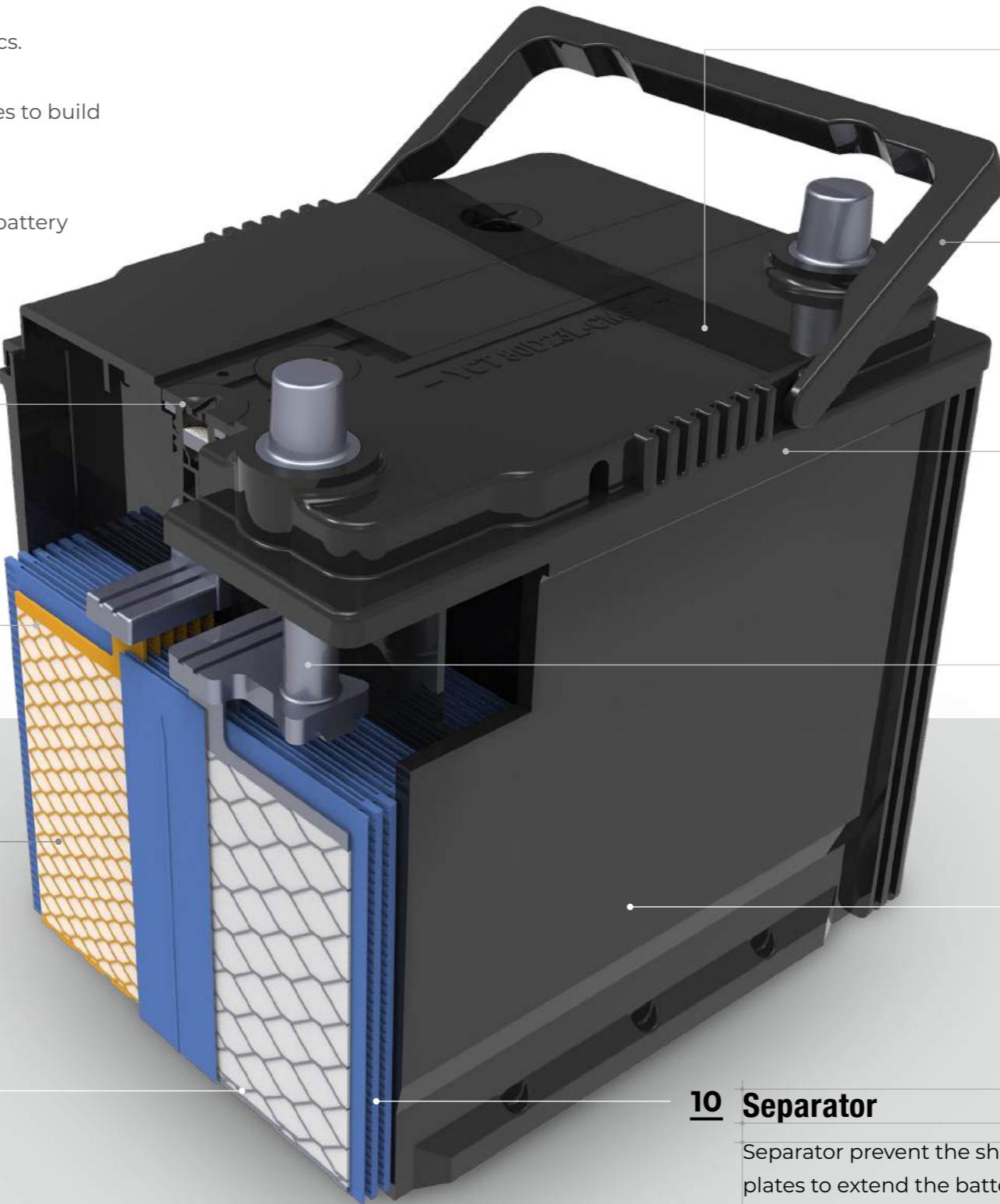
CMF II TYPE

Modern vehicles require advanced power supply for their high-demand electronics. TOPLITE CMF II series will serve the purpose with our technology.

100% manufactured in Taiwan, the new range of TOPLITE CMF II battery continues to build on Toplite's reputation for quality and an array of improved design.

Special internal design balanced perfectly between performance and battery life.

The sealed lid technology reduces water loss and prevents users to maintain the battery themselves.



01 Flame arrestor installed

Prevent external ignition sources from entering the battery.

02 Enhanced plate paste

Enhanced plate paste formulation reduces water loss and improves charge acceptance for superior performance and longer life.

03 Cast plate

The cast plate design has lower internal resistance promoting superior starting power, improved vibration resistance and provides longer service life.

04 Expanded grid technology

Delivers optimal power and offers higher CCA

05 Charge indicator

For the spot diagnosis of battery conditions

06 Carry handle

Ergonomic design provides a thicker grooved carry handle for comfort.

07 Sealed lead technology

Spill proof sealed lid reduces water loss to promote the battery life.

08 Cast on strap

Thicker cast on strap ensures durability and lower electrical resistance to promote longer battery life.

09 Polypropylene case

Superior resistance in extreme conditions of climates.

10 Separator

Separator prevent the short circuit of plates to extend the battery life. And it also reduces internal resistance, maximizes the discharge output.

AUTOMOTIVE BATTERY

SMF TYPE

Toplite SMF series offers top notch technology for all models to meet all users' demand.

The advanced labyrinth lid system and heat sealed double lid technology reduce water loss whilst increase electrolyte levels.

Grid plate design and special paste formulations combined to deliver superior performance, corrosion resistance and heat tolerance.

TOPLITE SMF series is well suited for extreme climate and harsh conditions.



01 Flame arrestor installed

Prevent external ignition sources from entering the battery.

05 Cast on strap

Thicker cast on strap ensures durability and lower electrical resistance to promote longer battery life.

02 Enhanced plate paste

Enhanced paste formulation reduces water loss and improves charge acceptance for superior performance and longer life.

03 Cast plate

The cast plate design has lower internal resistance promoting superior starting power, improved vibration resistance and provides longer service life.

04 Expanded grid technology

Delivers optimal power and offers higher CCA

07 Carry handle

Ergonomic design provides a thicker grooved carry handle for comfort.

06 Charge indicator

For the spot diagnosis of battery conditions

08 Double labyrinth lid technology

Spill proof double lid to assist in reducing water loss promoting longer battery life.

10 Separator

Separator prevent the short circuit of plates to extend the battery life. And it also reduces internal resistance, maximizes the discharge output.

09 Polypropylene case

Superior resistance in extreme conditions of climates.

AUTOMOTIVE BATTERY

AGM & EFB

Toplite AGM series (Absorbed Glass Mat) has excellent performance to meet the most demand of modern vehicles and their electrical systems.

Toplite AGM series offers the superior endurance, ideal for those vehicles with advanced Start-Stop systems, whose battery needs charging and discharging repeatedly for the performance levels keeping.

Toplite latest technology that will serve the luxury car category compatible with Start-Stop and Hybrid system vehicles.

Toplite EFB series (Enhanced Flooded Battery) is built for higher performance than conventional flooded batteries and supporting Start-Stop vehicles.

Recommended for the standard vehicles with high electrical demands as well.

Start-Stop technology is rapidly gaining momentum in the market in an effort to reduce fuel consumption and CO₂ emissions.

In city traffic, the vehicle's electrical system can consume more power than the alternator can supply.

Due to less charging opportunity in Start-Stop system, it's import to have a battery that is able to recharge quickly with superior starting power to enable engine off-mode.

01 Latest technology for advanced vehicles with start-stop and regenerative braking system

02 Absolutely maintenance free, non-spillable and vibration proof

03 Optimum starting power and maximum capacity

04 High cycling durability

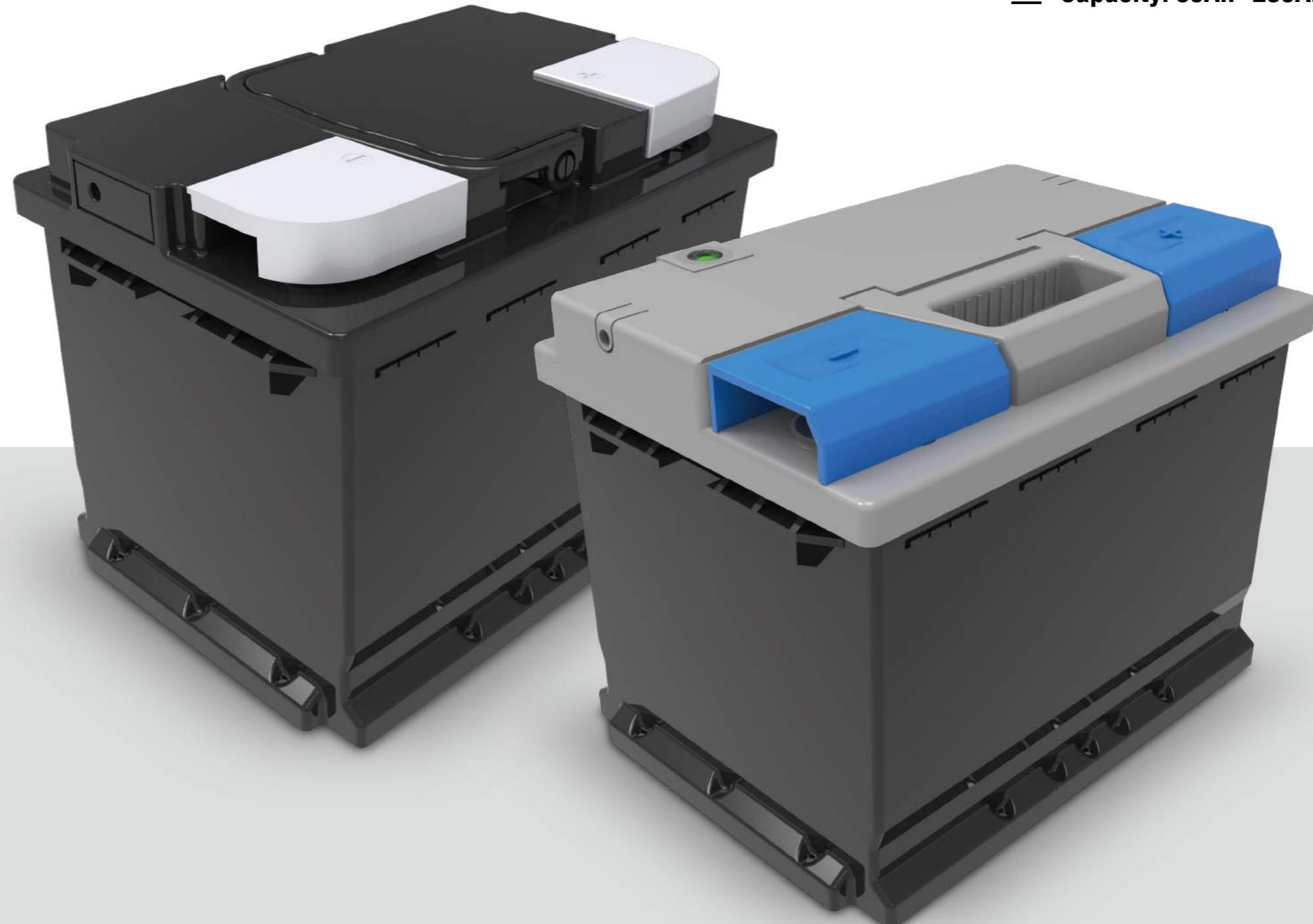
05 Reduced fuel consumption & lower emissions

06 Flexible installation and safe handling

07 Extra long service life

08 Large-variety of models

09 Capacity: 60Ah~230Ah





AUTOMOTIVE BATTERY SPECIFICATIONS

AUTOMOTIVE BATTERY SPECIFICATIONS

Model	Old model name	Voltage	CCA (-18°C)	Capacity Ah (20HR)	Dimensions (± 2mm)				Weight Without Acid (Kg)	Charge current (Amps)	ACID VOL UMN	Layout	Terminal Type (refer to page 51)
					L	W	H	TH					
26A19L	12N24-3	12	185	26	186	126	162	178	5.2	2.6	1.5	0	4
26A19R	12N24-4	12	185	26	186	126	162	178	5.2	2.6	1.5	1	4
32C24R	N40	12	238	40	238	135	207	232	7.1	4	2.9	1	1
32C24L	N40L	12	238	40	238	135	207	232	7.1	4	2.9	0	1
34B19R(S)	NS40ZA(S)	12	240	33	187	127	202	227	6.6	3.3	2.3	1	1
34B19L(S)	NS40ZAL(S)	12	240	33	187	127	202	227	6.6	3.3	2.3	0	1
36B20R	NS40Z	12	260	35	197	129	202	227	7.6	3.5	2.2	1	3
36B20L	NS40ZL	12	260	35	197	129	202	227	7.6	3.5	2.2	0	3
34B19L	NS40ZAL	12	240	33	187	127	202	227	6.6	3.5	2.3	0	3
36B20R(S)	NS40Z(S)	12	260	35	197	129	202	227	7.6	3.5	2.2	1	1
36B20L(S)	NS40ZL(S)	12	260	35	197	129	202	227	7.6	3.5	2.2	0	1
	NS40	12	230	32	197	129	202	227	6.6	3.3	2.3	1	3
	NS40L	12	230	32	197	129	202	227	6.6	3.3	2.3	0	3
46B24R	NS60	12	325	45	238	129	202	227	8.6	4.5	2.8	1	3
46B24L	NS60L	12	325	45	238	129	202	227	8.6	4.5	2.8	0	3
46B24R(S)	NS60(S)	12	325	45	238	129	202	227	8.6	4.5	2.8	1	1
46B24L(S)	NS60L(S)	12	325	45	238	129	202	227	8.6	4.5	2.8	0	1
55B24R		12	370	45	238	129	202	225	8.7	4.5	2.8	1	3
55B24L		12	370	45	238	129	202	225	8.7	4.5	2.8	0	3
55B24R(S)		12	370	45	238	129	202	225	8.7	4.5	2.8	1	1
55B24L(S)		12	370	45	238	129	202	225	8.7	4.5	2.8	0	1
48D26R	N50	12	278	50	260	173	202	225	9.5	5	4.3	1	1
48D26L	N50L	12	278	50	260	173	202	225	9.5	5	4.3	0	1
55D23R		12	320	60	230	171	202	225	10.8	6	3.7	1	1
55D23L		12	320	60	230	171	202	225	10.8	6	3.7	0	1
55D26R	N50Z	12	348	60	260	173	202	225	11.2	6	4.4	1	1
55D26L	N50ZL	12	348	60	260	173	202	225	11.2	6	4.4	0	1
65D23R		12	420	65	232	173	202	225	12.5	6.5	3.5	1	1
65D23L		12	420	65	232	173	202	225	12.5	6.5	3.5	0	1
65D26R	NS70	12	413	65	260	173	202	225	11.2	6.5	4.4	1	1
65D26L	NS70L	12	413	65	260	173	202	225	11.2	6.5	4.4	0	1

Model	Old model name	Voltage	CCA (-18°C)	Capacity Ah (20HR)	Dimensions (± 2mm)				Weight Without Acid (Kg)	Charge current (Amps)	ACID VOL UMN	Layout	Terminal Type (refer to page 51)
					L	W	H	TH					
80D23R		12	540	65	232	173	202	225	12.5	6.5	3.5	1	1
80D23L		12	540	65	232	173	202	225	12.5	6.5	3.5	0	1
80D26R	NX110-5	12	490	68	260	173	202	225	14.2	6.8	4	1	1
80D26L	NX110-5L	12	490	68	260	173	202	225	14.2	6.8	4	0	1
65D31R	N70	12	340	70	305	173	202	225	12.6	7	5.8	1	1
65D31L	N70L	12	340	70	305	173	202	225	12.6	7	5.8	0	1
75D23L		12	465	65	230	171	202	225	12.5	6.5	3.5	0	1
75D23R		12	465	65	230	171	202	225	12.5	6.5	3.5	1	1
75D31R	N70Z	12	380	75	305	173	202	225	14.6	7.5	4.8	1	1
75D31L	N70ZL	12	380	75	305	173	202	225	14.6	7.5	4.8	0	1
95D31R	NX120-7	12	565	80	305	173	202	225	16.3	8	4.8	1	1
95D31L		12	565	80	305	173	202	225	16.3	8	4.8	0	1
	N80	12	565	80	305	173	202	225	16.3	8	4.8	0	1
	N80L	12	565	80	305	173	202	225	14.2	8	4.8	1	1
80D26R	NX110-5	12	490	68	260	173	202	225	14.2	6.8	4	1	1
80D26L		12	490	68	260	173	202	225	14.2	6.8	4	0	1
115D31R		12	655	88	303	171	200	233	16.6	8.8	4.8	0	1
115D31L		12	655	88	303	171	200	233	16.6	8.8	4.8	0	1
95E41R	N100	12	475	100	409	175	211	233	17.3	10	6.9	1	1
95E41L	N100L	12	475	100	409	175	211	233	17.3	10	6.9	0	1
115E41R	NS120	12	610	110	409	175	211	233	19.4	11	6.5	1	1
115E41L	NS120L	12	610	110	409	175	211	233	19.4	11	6.5	0	1
115F51	N120	12	575	120	504	182	212	257	22.1	12	8.8	3	1
115F51L	N120L	12	575	120	504	182	212	257	22.1	12	8.8	4	1
115F51 扁頭		12	575	120	504	182	212	262					

AUTOMOTIVE BATTERY SPECIFICATIONS

Model	Old model name	Voltage	CCA (-18°C)	Capacity Ah (20HR)	Dimensions (± 2mm)				Weight Without Acid (Kg)	Charge current (Amps)	ACID VOL UMN	Layout	Terminal Type (refer to page 51)
					L	W	H	TH					
145G51L	N150L	12	685	150	507	222	212	257	27.8	15	10	4	1
165G51		12	710	165	521	222	212	257	29.7	16.5	10	3	1
190H52	N200	12	765	200	521	278	219	269	36.5	20	14.2	3	1
190H52L	N200L	12	765	200	521	278	219	269	36.5	20	14.2	3	1
210H52		12	910	210	521	278	219	269	37	21	14.2	3	1
210H52		12	910	210	521	278	219	269	37	21	14.2	3	4
245H52		12	1170	220	521	278	219	269	39	22	14.2	3	1
3-75	4H	6	-	150	303	172	202	225	12.8	15	12.8	2	1
56224		12	550	62	246	175	190	190	11.5	6.2	3.1	0	1
56618		12	510	66	306	175	190	190	14	6.6	4.2	0	1
57531		12	570	75	306	175	190	190	15.8	7.5	3.6	0	1
55530		12	500	55	246	175	190	190	10.8	5.5	3.1	0	1
55548		12	500	55	246	175	190	190	10.8	5.5	3.1	1	1
67023		12	1000	170	353	175	190	190	30.1	10	10	4	1
68022		12	1100	180	514	218	190	215	32.5	18	11.5	4	1
73023		12	1150	230	512	274	210	242	38.1	23	18.5	4	1
52515		12	130	25	186	130	171	171	5.2	2.5	1.8	0	4
53030		12	180	30	186	130	171	171	6.1	3	1.7	0	4
130E41R		12	680	115	409	175	211	233	21.4	11.5	6.1	1	1
130E41L		12	680	115	409	175	211	233	21.4	11.5	6.1	0	1
SB-175		6	-	175	405	174	215	258	19.6	17.5	27	2	DUAL

Standard type

Model	Old model name	Voltage	CCA (-18°C)	Capacity Ah (20HR)	Dimensions (± 2mm)				Weight Without Acid (Kg)	Charge current (Amps)	ACID VOL UMN	Layout	Terminal Type (refer to page 51)
					L	W	H	TH					
145G51L	N150L	12	685	150	507	222	212	257	27.8	15	10	4	1
165G51		12	710	165	521	222	212	257	29.7	16.5	10	3	1
190H52	N200	12	765	200	521	278	219	269	36.5	20	14.2	3	1
190H52L	N200L	12	765	200	521	278	219	269	36.5	20	14.2	3	1
210H52		12	910	210	521	278	219	269	37	21	14.2	3	1
210H52		12	910	210	521	278	219	269	37	21	14.2	3	4
245H52		12	1170	220	521	278	219	269	39	22	14.2	3	1
3-75	4H	6	-	150	303	172	202	225	12.8	15	12.8	2	1
56224		12	550	62	246	175	190	190	11.5	6.2	3.1	0	1
56618		12	510	66	306	175	190	190	14	6.6	4.2	0	1
57531		12	570	75	306	175	190	190	15.8	7.5	3.6	0	1
55530		12	500	55	246	175	190	190	10.8	5.5	3.1	0	1
55548		12	500	55	246	175	190	190	10.8	5.5	3.1	1	1
67023		12	1000	170	353	175	190	190	30.1	10	10	4	1
68022		12	1100	180	514	218	190	215	32.5	18	11.5	4	1
73023		12	1150	230	512	274	210	242	38.1	23	18.5	4	1
52515		12	130	25	186	130	171	171	5.2	2.5	1.8	0	4
53030		12	180	30	186	130	171	171	6.1	3	1.7	0	4
130E41R		12	680	115	409	175	211	233	21.4	11.5	6.1	1	1
130E41L		12	680	115	409	175	211	233	21.4	11.5	6.1	0	1
SB-175		6	-	175	405	174	215	258	19.6	17.5	27	2	DUAL

AUTOMOTIVE BATTERY SPECIFICATIONS

Model	Voltage	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)				Weight With Acid (Kg)	Charge current (Amps)	Layout	Terminal Type (refer to page 51)	Hold down
				L	W	H	TH					
34B19R-CMF II	12	33	240	187	127	202	227	8.7	3.3	1	3	N/A
34B19L-CMF II	12	33	240	187	127	202	227	8.7	3.3	0	3	N/A
34B19R(S)-CMF II	12	33	240	187	127	202	227	8.7	3.3	1	1	N/A
34B19L(S)-CMF II	12	33	240	187	127	202	227	8.7	3.3	0	1	N/A
36B20R-CMF II	12	35	260	197	129	202	227	9.3	3.5	1	3	N/A
36B20L-CMF II	12	35	260	197	129	202	227	9.3	3.5	0	3	N/A
36B20R(S)-CMF II	12	35	260	197	129	202	227	9.3	3.5	1	1	N/A
36B20L(S)-CMF II	12	35	260	197	129	202	227	9.3	3.5	0	1	N/A
40B20R-CMF II	12	40	354	197	129	202	227	10.1	4	1	3	N/A

AUTOMOTIVE BATTERY SPECIFICATIONS

Model	Voltage	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)				Weight With Acid (Kg)	Charge current (Amps)	Layout	Terminal Type (refer to page 51)	Hold down
				L	W	H	TH					

CMF II

48D26R-CMF II	12	50	250	260	173	202	225	15	5	1	1	B1
48D26L-CMF II	12	50	250	260	173	202	225	15	5	0	1	B1
65D26R-CMF II	12	65	370	260	173	202	225	16.5	6.5	1	1	B1
65D26L-CMF II	12	65	370	260	173	202	225	16.5	6.5	0	1	B1
80D26R-CMF II	12	68	490	260	173	202	225	18.7	6.8	1	1	B1
80D26L-CMF II	12	68	490	260	173	202	225	18.7	6.8	0	1	B1
85D26R-CMF II	12	68	540	260	173	202	225	19	6.8	1	1	B1
85D26L-CMF II	12	68	540	260	173	202	225	19	6.8	0	1	B1
100D26R-CMF II	12	68	615	260	173	202	225	18.5	6.8	1	1	B1
100D26L-CMF II	12	68	615	260	173	202	225	18.5	6.8	0	1	B1
65D31R-CMF II	12	70	340	305	173	202	225	19.6	7	1	1	B1
65D31L-CMF II	12	70	340	305	173	202	225	19.6	7	0	1	B1
95D31R-CMF II	12	80	565	305	173	202	225	21.5	8	1	1	B1
95D31L-CMF II	12	80	565	305	173	202	225	21.5	8	0	1	B1
115D31R-CMF II	12	88	655	305	173	202	225	22.6	8.8	1	1	B1
115D31L-CMF II	12	88	655	305	173	202	225	22.6	8.8	0	1	B1
125D31R-CMF II	12	90	780	305	173	202	225	22	9	1	1	B1
125D31L-CMF II	12	90	780	305	173	202	225	22	9	0	1	B1
55530-CMF II	12	55	500	246	175	190	190	14.8	5.5	0	1	B13
55566-CMF II	12	55	500	246	175	175	175	14.4	5.5	0	1	B13
55548-CMF II	12	55	500	246	175	190	190	14.8	5.5	1	1	B13
56224-CMF II	12	62	550	246	175	175	190	15.3	6.2	0	1	B13
56259-CMF II	12	62	550	246	175	175	190	15.3	6.2	1	1	B13
54316-CMF II	12	43	390	209	175	175	175	12.7	4.3	0	1	B13
54801-CMF II	12	48	450	209	175	175	175	12.7	4.8	0	1	B13
54465-CMF II	12	44	390	209	175	175	175	12.7	4.4	0	1	B13
56638-CMF II	12	66	590	278	175	175	175	16.8	6.6	0	1	B13
25-60-CMF II	12	60	500	232	173	202	225	15.3	6	1	1	B1
35-60-CMF II	12	60	500	232	173	202	225	15.3	6	0	1	B1
GR40R-CMF II	12	60	590	278	175	175	175	16.9	6	0	1	B1
GR95R-CMF II	12	55	500	246	175	175	175	14.4	5.5	1	1	B1
GR96R-CMF II	12	55	500	246	175	175	175	14.4	5.5	0	1	B1

Model	Voltage	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)				Weight With Acid (Kg)	Charge Current (Amps)	Layout	Terminal Type (refer to page 51)	Hold down
				L	W	H	TH					

SMF

40B19R-SMF	12	35	265	187	127	202	227	9.2	3.5	1	2	N/A
40B19L-SMF	12	35	265	187	127	202	227	9.2	3.5	0	2	N/A
40B19L(S)-SMF	12	35	265	187	127	202	227	9.2	3.5	0	1	N/A
40B19R(S)-SMF	12	35	265	187	127	202	227	9.2	3.5	1	1	N/A
46B24R-SMF	12	45	295	238	129	202	227	12	4.5	1	2	N/A
46B24L-SMF	12	45	295	238	129	202	227	12	4.5	0	2	N/A
46B24R(S)-SMF	12	45	295	238	129	202	227	12	4.5	1	1	N/A
46B24L(S)-SMF	12	45	295	238	129	202	227	12	4.5	0	1	N/A
55B24R-SMF	12	45	370	238	129	202	227	12.2	4.5	1	2	N/A
55B24L-SMF	12	45	370	238	129	202	227	12.2	4.5	0	2	N/A
55B24R(S)-SMF	12	45	370	238	129	202	227	12.2	4.5	1	1	N/A
55B24L(S)-SMF	12	45	370	238	129	202	227	12.2	4.5	0	1	B3
55D23R-SMF	12	60	320	232	173	202	225	15.6	6	1	1	B3
55D23L-SMF	12	60	320	232	173	202	225	15.6	6	0	1	B3
70D23R-SMF	12	65	420	232	173	202	225	16.5	6.5	1	1	B3
70D23L-SMF	12	65	420	232	173	202	225	16.5	6.5	0	1	B3
75D23R-SMF	12	65	465	232	173	202	225	16.5	6.5	1	1	B3
75D23L-SMF	12	65	465	232	173	202	225	16.5	6.5	0	1	B3
48D26R-SMF	12	50	250	260	173	202	225	15	5	1	1	B3
48D26L-SMF	12	50	250	260	173	202	225	15	5	0	1	B3
65D26R-SMF	12	65	370	260	173	202	225	16.5	6.5	1	1	B3
65D26L-SMF	12	65	370	260	173	202	225	16.5	6.5	0	1	B3
80D26R-SMF	12	68	490	260	173	202	225	18.7	6.8			

AUTOMOTIVE BATTERY SPECIFICATIONS

Model	Voltage	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)				Weight With Acid (Kg)	Charge Current (Amps)	Layout	Terminal Type (refer to page 51)	Hold down
				L	W	H	TH					

SMF

40B19R-SMF	12	35	265	187	127	202	227	9.2	3.5	1	2	N/A
40B19L-SMF	12	35	265	187	127	202	227	9.2	3.5	0	2	N/A
40B19L(S)-SMF	12	35	265	187	127	202	227	9.2	3.5	0	1	N/A
40B19R(S)-SMF	12	35	265	187	127	202	227	9.2	3.5	1	1	N/A
46B24R-SMF	12	45	295	238	129	202	227	12	4.5	1	2	N/A
46B24L-SMF	12	45	295	238	129	202	227	12	4.5	0	2	N/A
46B24R(S)-SMF	12	45	295	238	129	202	227	12	4.5	1	1	N/A
46B24L(S)-SMF	12	45	295	238	129	202	227	12	4.5	0	1	N/A
55B24R-SMF	12	45	370	238	129	202	227	12.2	4.5	1	2	N/A
55B24L-SMF	12	45	370	238	129	202	227	12.2	4.5	0	2	N/A
55B24R(S)-SMF	12	45	370	238	129	202	227	12.2	4.5	1	1	N/A
55B24L(S)-SMF	12	45	370	238	129	202	227	12.2	4.5	0	1	B3
55D23R-SMF	12	60	320	232	173	202	225	15.6	6	1	1	B3
55D23L-SMF	12	60	320	232	173	202	225	15.6	6	0	1	B3
70D23R-SMF	12	65	420	232	173	202	225	16.5	6.5	1	1	B3
70D23L-SMF	12	65	420	232	173	202	225	16.5	6.5	0	1	B3
75D23R-SMF	12	65	465	232	173	202	225	16.5	6.5	1	1	B3
75D23L-SMF	12	65	465	232	173	202	225	16.5	6.5	0	1	B3
48D26R-SMF	12	50	250	260	173	202	225	15	5	1	1	B3
48D26L-SMF	12	50	250	260	173	202	225	15	5	0	1	B3
65D26R-SMF	12	65	370	260	173	202	225	16.5	6.5	1	1	B3
65D26L-SMF	12	65	370	260	173	202	225	16.5	6.5	0	1	B3
80D26R-SMF	12	68	490	260	173	202	225	18.7	6.8	1	1	B3
80D26L-SMF	12	68	490	260	173	202	225	18.7	6.8	0	1	B3
95D31R-SMF	12	80	565	305	173	202	225	21.5	8	1	1	B3
95D31L-SMF	12	80	565	305	173	202	225	21.5	8	0	1	B3
105D31R-SMF	12	90	750	305	173	202	225	22.2	9	1	1	B3
105D31L-SMF	12	90	750	305	173	202	225	22.2	9	0	1	B3

Model	Voltage	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)				Weight With Acid (Kg)	Charge current (Amps)	Layout	Terminal Type (refer to page 51)	Hold down
				L	W	H	TH					

SMF

55530-SMF	12	55	500	246	175	175	190	14.8	5.5	0	1	B13
55566-SMF	12	55	500	246	175	175	175	14.4	5.5	0	1	B13
56214-SMF	12	62	550	246	175	175	175	15.2	6.2	0	1	B13
56224-SMF	12	62	520	246	175	190	190	15.3	6.2	0	1	B13
56308-SMF	12	63	640	246	175	-	190	16	6.3	0	1	B13
56638-SMF	12	66	590	278	175	175	175	16.8	6.6	0	1	B13
57114-SMF	12	72	620	278	175	175	175	17.2	7.2	0	1	B13
57531-SMF	12	75	640	278	175	190	190	17.7	7.5	0	1	B13
58014-SMF	12	80	730	315	175	175	175	19.7	8	0	1	B13
58514-SMF	12	85	800	315	175	175	175	20.8	8.5	0	1	B13
60044-SMF	12	100	760	353	175	190	190	23.2	10	0	1	B13
56638-SMF	12	66	590	278	175	175	175	16.8	6.6	0	1	B13
35-60-SMF	12	60	320	232	173	202	225	15.6	6	0	1	B13
LBN2	12	60	540	242	175	/	175		6	0	1	B13
LN2	12	65	580	242	175	/	190		6.5	0	1	B13
LBN3	12	75	680	278	175	/	175		7.5	0	1	B13
LN3	12	80	720	278	175	/	190		8	0	1	B13
LBN4	12	80	720	310	175	/	175		8	0	1	B13
LN4	12	85	750	310	175	/	190		8.5	0	1	B13
LBN5	12	95	800	353	175	/	175		9.5	0	1	B13
LN5	12	100	840	353	175	/	190		10	0	1	B13
36B20L-SMF	12	35	300	197	128	/	220		3.5	0	3	B0
36B20R-SMF	12	35	300	197	128	/	220		3.5	1	3	B0
46B24L-SMF	12	45	330	237	128	/	220		4.5	0	3	B0
46B24R-SMF	12	45	330	237	128	/	220		4.5	1	3	B0
55D23L-SMF	12	60	450	230	170	/	220		6	0	1	B1
55D23R-SMF	12	60	450	230	170	/	220		6	1	1	B1
80D26L-SMF	12	70	560	260	170	/	220		7	0	1	B1
80D26R-SMF	12	70	560	260	170	/						

AUTOMOTIVE BATTERY SPECIFICATIONS

Model	Voltage	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)				Weight With Acid (Kg)	Charge current (Amps)	Layout	Terminal Type (refer to page 51)	Hold down
				L	W	H	TH					
95E41L-SMF	12	100	700	413	175	/	223		10	0	1	B0
95E41R-SMF	12	100	700	413	175	/	223		10	1	1	B0
625075-SMF	12	125	750	513	189	/	223		12.5	3	1	B0
640090-SMF	12	140	900	513	189	/	223		14	3	1	B0
640095-SMF	12	140	950	513	189	/	223		14	3	1	B0
655100-SMF	12	155	1000	513	189	/	223		15.5	3	1	B0
680120-SMF	12	180	1200	513	223	/	223		18	3	1	B0
700125-SMF	12	200	1250	514	274	/	242		20	3	1	B0
710130-SMF	12	210	1300	514	274	/	242		21	3	1	B0
730135-SMF	12	230	1350	514	274	/	242		23	3	1	B0

SMF

Model	Voltage	Capacity Ah (20HR)	CCA (-18°C)	Dimensions (± 2mm)			Current charge (Amps)	Layout	Terminal type	Hold down
				L	W	H				

AGM

AGM LN2	12	60	560	242	175	190	6	0	1	B13
AGM LN3	12	70	760	278	175	190	7	0	1	B13
AGM LN4	12	80	840	310	175	190	8	0	1	B13
AGM LN5	12	95	860	353	175	190	9.5	0	1	B13
AGM-640100	12	140	1000	513	189	223	14	3	1	B0
AGM-670110	12	170	1100	513	223	223	17	3	1	B0
AGM-695120	12	195	1200	514	274	242	19.5	3	1	B0
AGM-722140	12	220	1400	514	274	242	22	3	1	B0

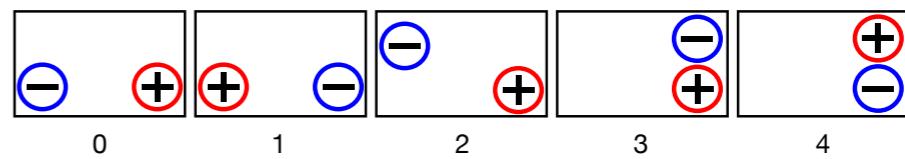
EFB

EFB LN2	12	60	560	242	175	190	6	0	1	B13
EFB LN3	12	70	680	278	175	190	7	0	1	B13
EFB LN4	12	80	740	310	175	190	8	0	1	B13
EFB LN5	12	90	840	353	175	190	9	0	1	B13
EFB 680110	12	180	1100	513	223	223	18	3	1	B0
EFB 730125	12	230	1250	514	276	242	23	3	1	B0

AUTOMOTIVE BATTERY SPECIFICATIONS

LEGEND

LAYOUT



TERMINALS



HOLD-DOWN

