



Lithium Ion

Safety - Performance - Sustainability

WARNING

NEVER attempt to open or disassemble the battery! If accidental contact with inner content of the battery occurs, wash the affected skin area and contact a doctor for further medical assistance.

FITTING

- Check the battery state of charge before fitting it by pressing and holding the TEST button on the BATTERY CAPACITY INDICATOR located in between the terminals on top of the battery.
- If the BATTERY CAPACITY INDICATOR indicates LOW (1 blue LED illuminated) or MED (2 blue LEDs illuminated) while pressing TEST, charge the battery before fitting it (see CHARGING section).
- Always follow the vehicle manual while fitting the battery.
- Never use this battery in a vehicle where the alternator produces voltages higher than 15.0 Volt.
- Connect the positive lead to the terminal indicated with a ⊕, and the negative lead to the terminal indicated with a ⊖.
- Use the available spacers when needed to achieve the best possible fit.

CHARGING

- Always use a smart, Lithium specific battery charger to charge the battery.
- To prevent damage to the battery, the charging voltage should NEVER be higher than 15.0 Volt.
- Do NOT charge the battery with a charger with automatic DESULFATION MODE using higher voltage than 15.0 Volt.
- Always remove the battery from the vehicle before connecting it to the charger.
- It is preferable to charge the battery with the STD charging current found in the BATTERY DATA chart in the manual.
- Charging current should never exceed the MAX charging current found in the BATTERY DATA chart in the manual.
- If the battery seems hot when touching, stop charging. Allow battery to cool down before resuming.
- After charging, allow the battery to rest for 1 hour before pressing the TEST button on the BATTERY CAPACITY INDICATOR. If the indicator indicates LOW (1 blue LED illuminated) or MED (2 blue LEDs illuminated), the battery needs additional charging.

STORAGE

- Store in a clean, dry, and ventilated environment.
- Avoid contact with any corrosive substance.
- Keep away from heat and fire.

TRANSPORTATION

- Do not strike, throw, or subject the battery to severe physical shock.
- Do not transport the batteries together with flammable, explosive or sharp objects.

MAINTENANCE

- NEVER attempt to open the battery.
- Always keep the connecting poles clean and securely fastened.
- Every 180 days, check the state of charge of the battery by pressing the TEST button on the BATTERY CAPACITY INDICATOR. If the indicator indicates a LOW charge (only 1 blue LED illuminated), do a refresh charge (see CHARGING section).

OTHER

- Do not immerse the battery in water or allow it to get wet.
- Do not connect the battery directly to wall outlets.
- Do not short-circuit the battery by connecting wires or other metal objects to the positive ⊕ and negative ⊖ terminals.
- Do not pierce the battery casing with a nail or any other sharp objects, do not attempt to break it open, or step on it.
- Do not directly solder the battery terminals.
- Do not use the battery in combination with primary batteries (such as dry cell batteries) or batteries of different capacity, type or brand.
- Do not use the battery if it spreads a strange odour, generates heat, becomes discoloured or deformed, or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use.
- Optimal temperature range for the battery is -10°C to 60°C.
- SHIDO will bear no liabilities for problems that occur when the above instructions are not followed.

ADVANTAGES

- Up to 65% lighter than lead-acid batteries.
- Super cranking power - cranking current 30% to 50% higher than equivalent lead-acid batteries.
- Excellent cycle life - more than 3 times longer under JISD standard in comparison with lead-acid batteries.
- Longer shelf life due to low self-discharge - more than one year (lead-acid batteries: 6 months).
- Environment friendly - Does not contain any harmful pollutants, corrosive acids or toxic heavy metals.
- No spills - No acid inside, no leakage problems.
- 1 on 1 drop-in replacement for similar lead-acid type batteries.
- Quick recharge with big currents possible.
- Stable discharge voltage and lower internal resistance.
- Safe - non-explosive and non-combustible.

INSTRUCTIONS FOR MOTORCYCLE START BATTERIES

- This manual refers to SHIDO Lithium Ion batteries.
- The batteries are environment friendly and do not contain any harmful pollutants, corrosive acids or toxic heavy metals.
- The factory has obtained ISO9001, ISO14001, TS16949, CE, UL certification and got RoHS approval.
- If the batteries are used in an environment that is not referred to in this document, please contact us for authorization.
- We will not bear any responsibility or compensate any loss as a result of incorrect usage of the battery.

Lithium Ion

LiFeP04 START BATTERY



Up to 60% Higher Start Capacity

2000+ Charging cycles

65% Lighter than LEAD-ACID batteries

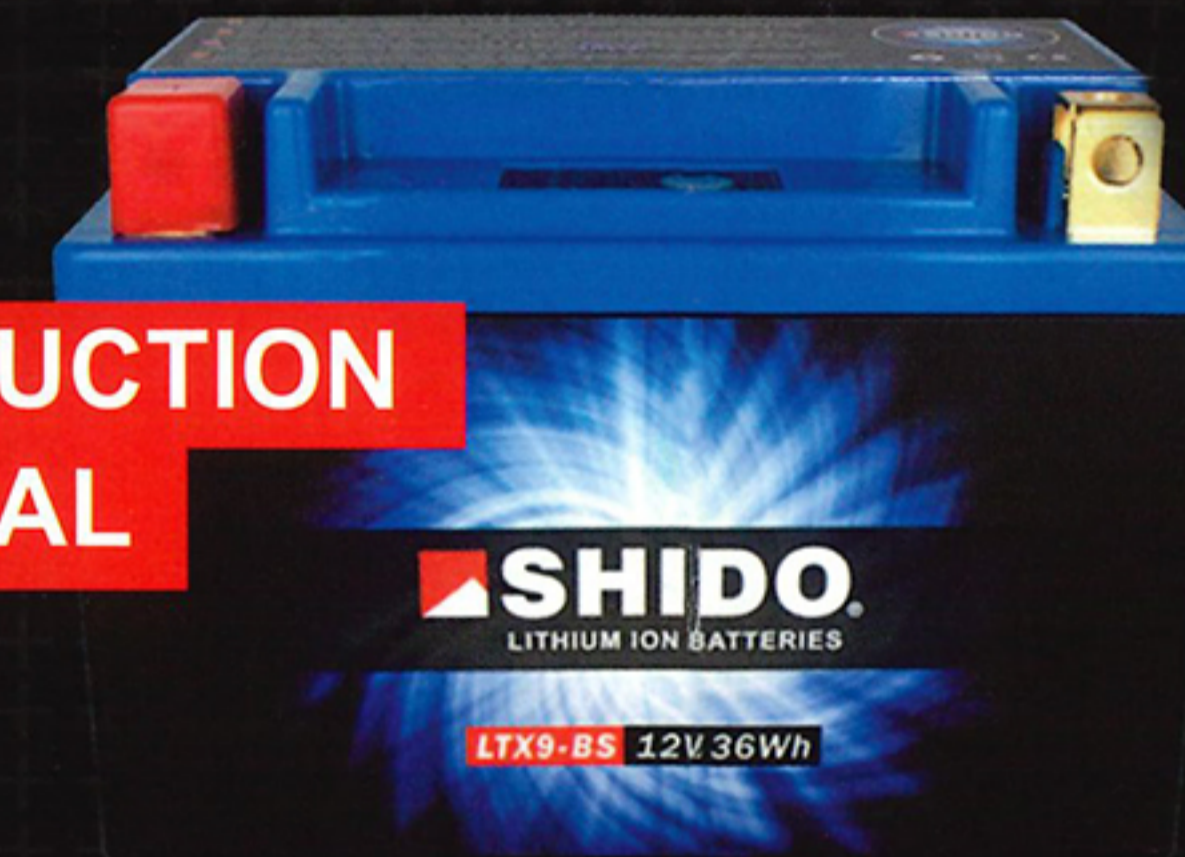
6 Minutes charging capability

1-on-1 Drop in replacement

Low self discharge

✓ **No harmful pollutants, corrosive acids or toxic heavy metals**

**INSTRUCTION
MANUAL**

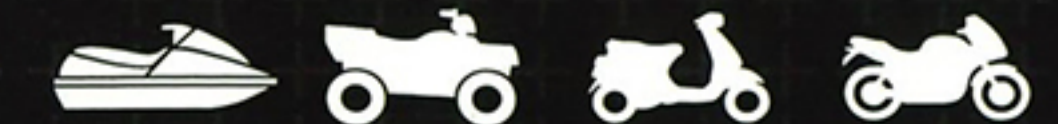


Certificate ISO-9001

Certificate ISO-14001

Certificate ISO/TS-16949

Power Sports Application

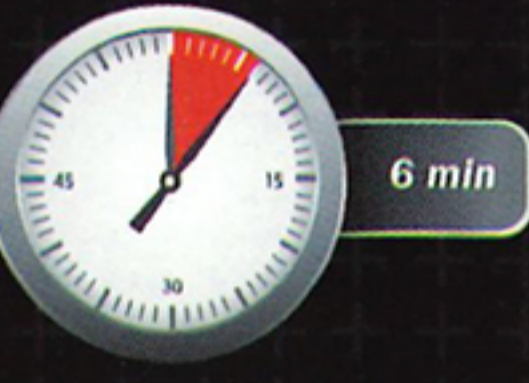


SHIDO Batteries are exclusively distributed by DC AFAM NV, Belgium.

For more info about SHIDO lithium batteries, please visit www.shido-batteries.com

BATTERY UPGRADE CROSS REFERENCE CHART

LEAD ACID BATTERY	SHIDO LITHIUM REF	LEAD ACID BATTERY	SHIDO LITHIUM REF
YTX4L -Y-	LTX4L-BS LION -S-	YB10L-B -Y-	LB12AL-A2 Q LION -S-
YTX4L-BS -Y-	LTX4L-BS LION -S-	YB10L-B2 -Y-	LB12AL-A2 Q LION -S-
YTZ5S -Y-	LTZ5S LION -S-	YTZ12S -Y-	LTZ12S LION -S-
YB4L-A -Y-	LTX4L-BS LION -S-	TTZ12S-BS -Y-	LTZ12S LION -S-
YB4L-B -Y-	LTX4L-BS LION -S-	TTZ14S-BS -Y-	LTZ14S LION -S-
YB4L-B WA -Y-	LTX4L-BS LION -S-	YTZ14S -Y-	LTZ14S LION -S-
YTX5L -Y-	LTX5L-BS LION -S-	12N12A-4A-1 -Y-	LB12AL-A2 Q LION -S-
YTX5L-BS -Y-	LTX5L-BS LION -S-	YB10L-BP -Y-	LB12AL-A2 Q LION -S-
YT84L -Y-	LTX4L-BS LION -S-	YB12A-A -Y-	LB12AL-A2 Q LION -S-
12N5-3B -Y-	LB5L-B LION -S-	YB12A-B -Y-	LB12AL-A2 Q LION -S-
YB5L-B -Y-	LB5L-B LION -S-	YB12AL-A -Y-	LB12AL-A2 Q LION -S-
YB5L-B WA -Y-	LB5L-B LION -S-	YB12AL-A2 -Y-	LB12AL-A2 Q LION -S-
YTZ6V -Y-	LTZ7S LION -S-	YB12C-A -Y-	LTX14AHL-BS Q LION -S-
12N5.5-3B -Y-	LB5L-B LION -S-	YTX14 -Y-	LTX14-BS LION -S-
12N5.5-4A -Y-	LB5L-B LION -S-	YTX14-BS -Y-	LTX14-BS LION -S-
12N5.5-4B -Y-	LB5L-B LION -S-	YTX14AH-BS -Y-	LTX14AHL-BS Q LION -S-
TTZ7S -Y-	LTZ7S LION -S-	YTX14AH-BS -Y-	LTX14AHL-BS Q LION -S-
YTX7A -Y-	LTX7A-BS LION -S-	YTX14H -Y-	LTX14-BS LION -S-
YTX7A-BS -Y-	LTX7A-BS LION -S-	YTX14H-BS -Y-	LTX14-BS LION -S-
YTX7L -Y-	LTX7L-BS LION -S-	YTX14L-BS -Y-	LTX14L-BS LION -S-
YTX7L-BS -Y-	LTX7L-BS LION -S-	YT14B -Y-	LT14B-BS LION -S-
YTZ7S -Y-	LTZ7S LION -S-	YT14B-BS -Y-	LT14B-BS LION -S-
YT7B -Y-	LT7B-BS LION -S-	YB14-A2 -Y-	LTX14AHL-BS Q LION -S-
YT7B-BS -Y-	LT7B-BS LION -S-	YB14-B2 -Y-	LTX14AHL-BS Q LION -S-
12N7-3B -Y-	LB9-B Q LION -S-	YB14A-A2 -Y-	LTX14AHL-BS Q LION -S-
12N7-4A -Y-	LB9-B Q LION -S-	YB14L-A -Y-	LTX14AHL-BS Q LION -S-
12N7D-3B -Y-	LB9-B Q LION -S-	YB14L-A2 -Y-	LTX14AHL-BS Q LION -S-
YTZ8V -Y-	LTZ8V LION -S-	YB14L-B2 -Y-	LTX14AHL-BS Q LION -S-
YB7-A -Y-	LB9-B Q LION -S-	YTX16 -Y-	LTX16-BS LION -S-
YB7L-B -Y-	LB9-B Q LION -S-	YTX16-BS -Y-	LTX16-BS LION -S-
YB7L-B2 -Y-	LB9-B Q LION -S-	YTX16-BS-1 -Y-	LTX16-BS LION -S-
YTX9 -Y-	LTX9-BS LION -S-	YB16AL-A2 -Y-	LB16AL-A2 LION -S-
YTX9-BS -Y-	LTX9-BS LION -S-	YB16AL-A2 WA -Y-	LB16AL-A2 LION -S-
YT9B -Y-	LT9B-BS LION -S-	YB16B-A -Y-	LTX16-BS LION -S-
YT9B-BS -Y-	LT9B-BS LION -S-	YB16B-A1 -Y-	LTX16-BS LION -S-
YTZ10S -Y-	LTZ10S LION -S-	YTX20A-BS -Y-	LTX20CH-BS LION -S-
TTZ10S-BS -Y-	LTZ10S LION -S-	YT19BL-BS -Y-	51913 LION -S-
12N9-3A -Y-	LB9-B Q LION -S-	51814 -Y-	51913 LION -S-
12N9-3B -Y-	LB9-B Q LION -S-	YTX20CH-BS -Y-	LTX20CH-BS LION -S-
12N9-4B-1 -Y-	LB9-B Q LION -S-	51913 -Y-	51913 LION -S-
YB9-B -Y-	LB9-B Q LION -S-	YB16CL-B -Y-	LTPW16L LION -S-
YB9-B WA -Y-	LB9-B Q LION -S-	YT19BL -Y-	51913 LION -S-
YB9L-A2 -Y-	LB9-B Q LION -S-	YTX24HL-BS -Y-	LTX24HL-BS Q LION -S-
YB9L-B -Y-	LB9-B Q LION -S-	Y60-N24L-A -Y-	LIX30L-BS Q LION -S-
12N10-3B -Y-	LB12AL-A2 Q LION -S-	Y60-N24L-A WA -Y-	LIX30L-BS Q LION -S-
YT12A -Y-	LT12A-BS LION -S-	52515 -Y-	LIX30L-BS Q LION -S-
YT12A-BS -Y-	LT12A-BS LION -S-	YHD-12 -Y-	LIX30L-BS Q LION -S-
YT12B -Y-	LT12B-BS LION -S-	53030 -Y-	LIX30L-BS Q LION -S-
YT12B-BS -Y-	LT12B-BS LION -S-	YB30CL-B -Y-	LIX30L-BS Q LION -S-
YTX12 -Y-	LTX12-BS LION -S-	YB30L-B -Y-	LIX30L-BS Q LION -S-
YTX12-BS -Y-	LTX12-BS LION -S-	YIX30L-BS -Y-	LIX30L-BS Q LION -S-
YB10L-A2 -Y-	LB12AL-A2 Q LION -S-		



SHIDO LION BATTERY DATA

SHIDO LITHIUM 12V	APPROX. weight(Kg)	BATTERY CCA	LION ENERGY (Wh)	Charging current(A)	
				STD	MAX
LB5L-B LION -S-	1	95	19	1	8
LTX4L-BS LION -S-	0.4	95	20	1	8
LTX5L-BS LION -S-	0.4	95	20	1	5
LTM2L LION -S-	0.45	120	24	1	10
LTZ5S CNT LION -S-	0.6	120	24	1	10
LTZ5S LION -S-	0.5	120	24	1	10
LTX7A-BS LION -S-	0.62	150	30	1.5	12
LTX7L-BS LION -S-	0.55	150	30	1.5	12
LTZ7S LION -S-	0.56	150	30	1.5	12
LB9-B Q LION -S-	0.8	180	36	1.5	12
LT7B-BS LION -S-	0.7	180	36	1.5	15
LT9B-BS LION -S-	0.7	180	36	1.5	15
LTX9-BS LION -S-	0.92	180	36	1.5	15
LT12A-BS LION -S-	0.8	210	42	2	18
LB12AL-A2 Q LION -S-	0.9	240	48	2	20
LTX12-BS LION -S-	0.8	240	48	2	18
LTX14-BS LION -S-	0.83	240	48	2	20
LTX14AHL-BS Q LION -S-	1	240	48	2	20
LTX14L-BS LION -S-	0.9	240	48	2	20
LTZ10S LION -S-	0.85	240	48	2	20
LTZ8V LION -S-	0.88	270	54	2.5	22.5
LB16AL-A2 LION -S-	1.1	300	60	2.5	25
LT12B-BS LION -S-	1	300	60	2.5	25
LT14B-BS LION -S-	1	300	60	2.5	25
LTZ12S LION -S-	0.95	300	60	2.5	25
LTZ14S LION -S-	1	300	60	2.5	25
LTPW16L LION -S-	1.4	360	72	3	24
LTX16-BS LION -S-	1.2	360	72	3	24
LTX20-H Q LION -S-	1.6	360	72	3	24
LTX20CH-BS LION -S-	1.2	360	72	3	24
LTX20-BS Q LION -S-	1.4	420	84	3.5	28
LTX24HL-BS Q LION -S-	1.45	420	84	3.5	28
51913 LION -S-	1.7	420	90	4	28
LIX30L-BS Q LION -S-	1.9	480	96	4	32