Tadiran SL-760 AA Lithium-Thionyl-Chloride Primary Battery

IDENTITY, COMMERCIAL FACTS AND SPECIFICATION

PRODUCT ROLE

Tadiran Batteries SL-760 is a 3.6 V AA lithium-thionyl-chloride primary cell for low-current equipment and long-life standby applications. Confirm the offered termination style against the installed holder before ordering.

OFFERED PRODUCT

Manufacturer part number
SL-760

Shipping
Swift global dispatch

Condition
New, original product

Shipping size (est.)
10.1cm x 9.2cm x 0.6cm (package)

Country of Origin
Germany

Ship from
Xiamen, Fujian, China

PUBLISHED TECHNICAL SPECIFICATIONS

Manufacturer	Tadiran Batteries
Product Category	General Automation
Spare Part Number	SL-760
Weight	0.06 kg
Tariff Code	8537101190
Cell chemistry	Lithium thionyl chloride (Li-SOCl2)
Cell format	AA cylindrical
Nominal voltage	3.6 V
Nominal capacity	2.2 Ah at specified test conditions
Nominal current	2 mA
Maximum continuous discharge	100 mA
Pulse-current capability	200 mA, subject to application conditions
Operating temperature	-55 to +85 deg C
Cell body diameter	14.7 mm nominal, catalogue drawing
Cell length	50.5 mm nominal, catalogue drawing
Cell mass	18 g, manufacturer nominal
Lithium content	0.65 g per cell
Cell volume	8 cm3
Anode surface area	14 cm2
Termination variants	/S, /T, /P, /PR and /PT listed; offered variant to be confirmed
Typical capacity at 20 mA	1.8 Ah to 2 V at +25 deg C (catalogue curve)
Typical capacity at 60 mA	1.4 Ah to 2 V at +25 deg C (catalogue curve)

Tadiran SL-760 AA Lithium-Thionyl-Chloride Primary Battery

BUYER INFORMATION AND SERVICE CONTEXT

OVERVIEW

Tadiran Batteries SL-760 is an AA lithium-thionyl-chloride primary cell designed for low-current operation and long service intervals. Confirm the actual terminal version and the host equipment battery specification before installation.
Cell chemistry: Li-SOCl2 primary
Nominal output: 3.6 V; 2.2 Ah at stated conditions
Available catalog terminations: /S, /T, /P, /PR and /PT
The manufacturer identifies the SL-760 cell as AA size, approximately 14.7 mm in diameter and 50.5 mm long, with a nominal 18 g cell mass. The user-supplied 10.1cm x 9.2cm x 0.6cm and 0.06 kg are packaging/shipping values, not the cylindrical cell dimensions.

The catalog gives 2 mA nominal current, 100 mA maximum continuous discharge and 200 mA pulse-current capability under its stated conditions. Its discharge curves show that usable capacity falls as load rises, so size a replacement against the actual device duty cycle and end-voltage requirement.

The SL-760 catalog includes standard, tag, pin, radial-pin and polarized-tag termination options. Since the supplied listing does not identify a suffix, verify end-contact photographs, polarity and holder geometry before approving an exact terminal variant. The published cell operating range is -55 to +85 deg C; the complete equipment may have a narrower limit.
Controller platform reference: Tadiran SL lithium primary-cell family. Match the SL-760 termination and host load profile before service.

APPLICATIONS / COMPATIBILITY

Host equipment fit: SL-760 is a primary lithium cell; the battery holder and electrical circuit must accept its exact voltage, AA geometry and supplied termination.

Application boundary: The examples below are use contexts for a suitable low-current battery circuit. Confirm the installed equipment maker’s approved cell and replacement procedure.

Industrial memory backup
Use only in equipment whose battery circuit specifies an AA 3.6 V lithium primary cell and matching terminal form. Check startup load and retention requirements.

Remote instrumentation
For long-interval, low-current installations, assess average and peak current against the SL-760 discharge curves at the site temperature.

Controller service replacement
Compare the complete cell marking and contact form with the installed battery. Record orientation and verify equipment health after exchange.

Standby power planning
Estimate operating life from the actual load profile and end-voltage threshold, including cold starts and any pulse duty, rather than nominal capacity alone.

LIFECYCLE STATUS

Model status: A current lifecycle phase for the complete SL-760 cell identity is unconfirmed. Confirm the offered termination variant before assessing interchangeability.

Service planning: Retain the host equipment battery specification and replacement schedule. Review the load profile and environmental conditions for any proposed replacement.

Supply status: Apter Power availability and dispatch are confirmed in the quotation separately from manufacturer lifecycle status.

PRODUCT PRECAUTIONS

Prepare SL-760 as a non-rechargeable lithium-thionyl-chloride AA cell. Match the actual termination, polarity and host load before installation.

Never charge the cell
SL-760 is a primary cell. Confirm the equipment does not impose charge current or use a rechargeable-cell circuit.

Match the contact form
Compare the offered /S, /T, /P, /PR or /PT termination with the actual holder. Do not infer the suffix from AA size.

Control short circuits
Keep contacts protected during storage and service. Do not bridge terminals with metal tools or loose parts.

Respect thermal and handling limits
Do not disassemble, incinerate, heat above 100 deg C or expose the contents to water. Follow local lithium-cell handling rules.

Confirm polarity and retention
Inspect the holder for corrosion, fit and contact pressure; install with correct polarity and secure the cell against movement.

Test under equipment load
Measure voltage during startup and normal operation, then verify the host battery indication and record the replacement date.

DOWNLOADS

An applicable original manufacturer technical reference or an Apter Power technical reference is listed in Downloads, followed by the Apter Power engineering technical data PDF. The View PDF control opens this complete product information dossier.

AVAILABLE UNIT DETAILS

Offered unit: Tadiran Batteries SL-760 AA cell; New, original product; country of origin Germany.

Identification: Verify the complete cell marking and physical termination from available-unit photographs. The supplied package measures 10.1cm x 9.2cm x 0.6cm; this is not the cylindrical cell size.

Included items: Confirm the exact termination variant and quantity in the quotation. Holders and connection accessories are included only when itemized.

Request available-unit photos and details

ALTERNATIVE NAMES

Tadiran Batteries SL-760 AA lithium cell
SL-760 lithium-thionyl-chloride primary cell

TECHNICAL NOTES

Cell selection: Match the actual SL-760 termination and polarity to the host equipment before installation.

Handling: Keep the cell dry and within the manufacturer temperature limits. Do not recharge, disassemble, incinerate or expose the contents to water.

Technical reference: Tadiran Batteries Product Data Catalogue, SL-760 AA cell; SL lithium-thionyl-chloride safety data sheet.

Tadiran SL-760 AA Lithium-Thionyl-Chloride Primary Battery

ENGINEERING FAQ AND ORDERING CHECKS

ENGINEERING QUESTIONS

Q01 How should SL-760 be evaluated for a load above its nominal current?

Use the manufacturer discharge curves at the actual temperature and duty cycle. Compare required continuous and pulse current with the documented limits, then test voltage at the equipment terminals under load; nominal capacity alone is not a high-current guarantee.

Q02 Why might an SL-760 show voltage delay after long storage?

Lithium-thionyl-chloride cells can passivate during storage. Compare the equipment startup load with the published voltage-response data and perform the approved equipment-level startup check; do not short or recharge the cell to correct a low reading.

Q03 Can an SL-760 with a different termination suffix be substituted without checking the holder?

No. The catalog lists standard, tag, pin, radial-pin and polarized-tag versions. Match the actual contacts, polarity and mechanical clearance to the installed holder before ordering a termination variant.

Q04 How should an engineer interpret the 2.2 Ah rating of SL-760 in a high-drain application?

The catalogue curves show available capacity varies with load and temperature. Use the expected end-voltage, duty cycle and temperature profile to estimate service life, then validate with the device manufacturer’s battery guidance.

Q05 What must be checked before an SL-760 is used below room temperature?

Check the minimum operating temperature of both cell and host equipment and examine the discharge curve at the intended current. Confirm the system still meets its startup-voltage threshold at the coldest expected condition.

Q06 Can SL-760 be recharged in a holder designed for a rechargeable AA cell?

No. The original manufacturer warns against recharging lithium-thionyl-chloride cells. Confirm the equipment does not apply charge current and that the holder and polarity are appropriate before installation.

Q07 What evidence helps identify the correct SL-760 termination when a label omits the suffix?

Request clear photos of both ends and the full marking. Compare contact geometry with the manufacturer /S, /T, /P, /PR and /PT drawings; avoid selecting a suffix based only on cell size.

Q08 What post-installation test is appropriate after replacing an SL-760?

Check polarity and retention, measure supply voltage while the equipment starts and performs its highest routine load, and verify the device’s battery or fault status. Record the installed termination and replacement date.

WHAT HAPPENS AFTER YOU ENQUIRE / ORDERING VERIFICATION

Review your reference

Send the complete SL-760 cell marking and the host equipment battery requirement so the exact contact form can be identified.

Confirm the offer

We confirm the available SL-760 termination form, the offered quantity and the cell condition in a written quotation.

Arrange dispatch

After you approve the quotation, we confirm the packing arrangement, dispatch timing and shipment details for the agreed quantity.

Match the complete marking

Include SL-760 and any termination suffix visible on the cell. Keep the exact reference and contact form on your enquiry and quotation.

Check the offered item before ordering

Request available label and terminal photos. Have your maintenance team compare the offered SL-760 with the installed holder and applicable Tadiran Batteries documentation.

Technical enquiry

sales13@apterpower.com | +86 18030235313