MODEL TL-5903R (formerly TLL-5903)
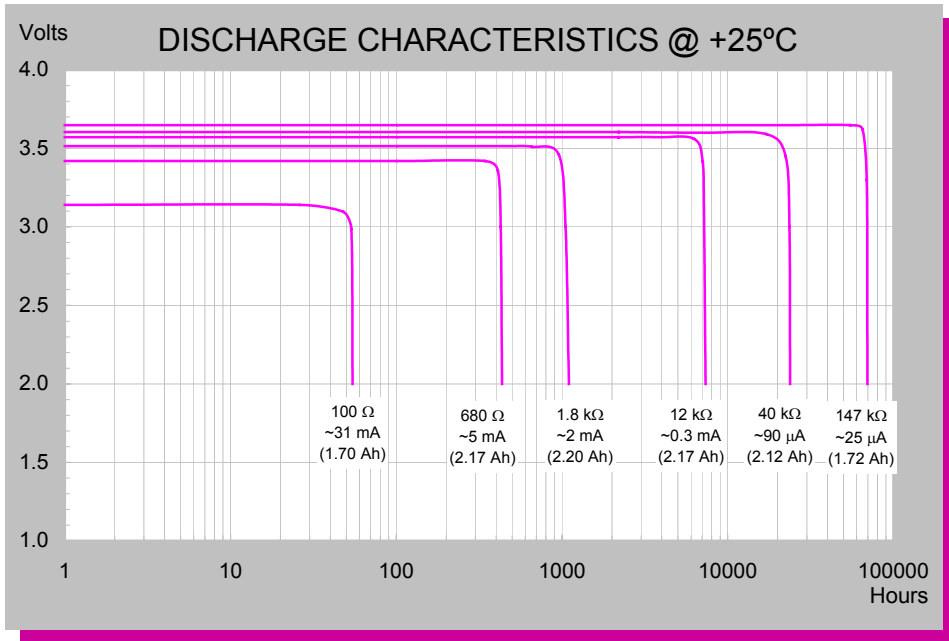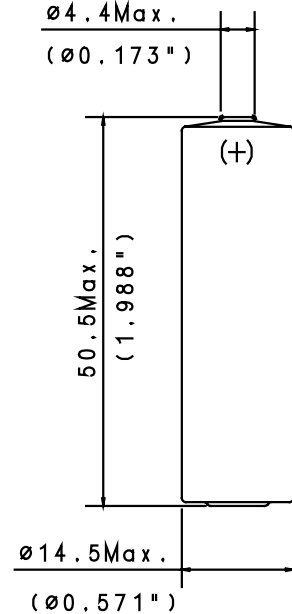
International size reference: AA, ER14505

TADIRAN LITHIUM BATTERIES

TECHNICAL DATA
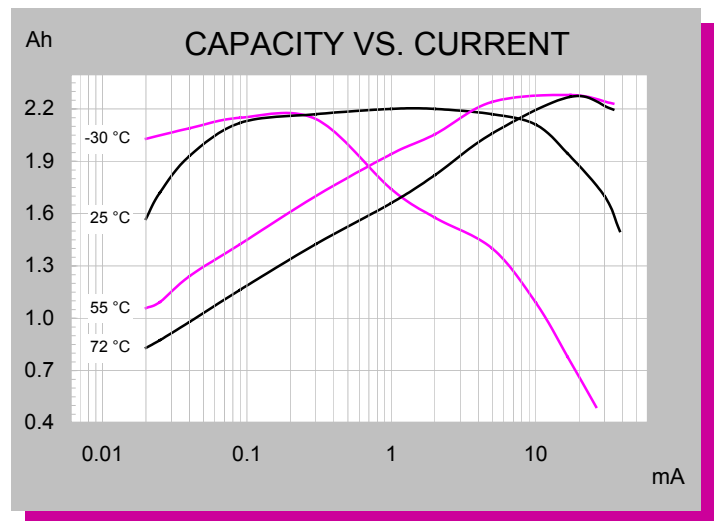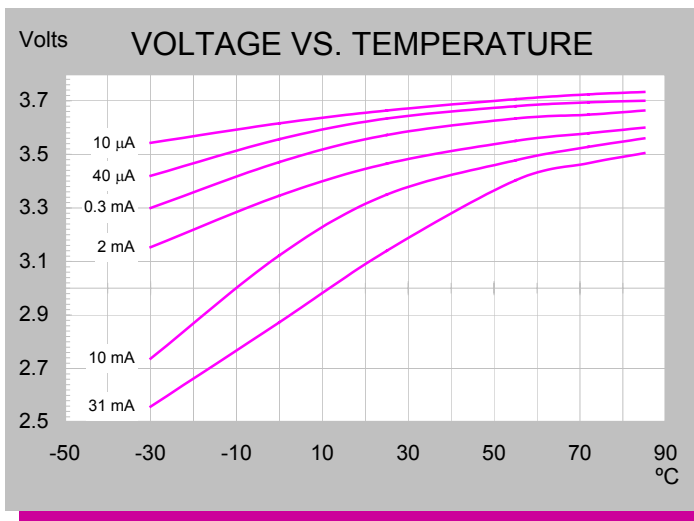(Typical values @+ 25ºC for batteries stored for one year or less)

- Nominal capacity @ 2 mA, to 2 V — 2.2 Ah
- Rated voltage — 3.6 V
- Maximum recommended continuous current — 100 mA
- Maximum pulse current capability — 200 mA
- Weight — 17.6 g (0.62 oz)
- Volume — 8 cc
- Operating temperature range — -55 ºC to +85 ºC
- Li metal content — approx. 0.7 g
- U.L. Component Recognition, MH 12193

ø4.4Max.
(Ø0.173")

(+)

50.5Max.
(1.988")

ø14.5Max.
(Ø0.571")

DISCHARGE CHARACTERISTICS @ +25ºC

| 100 Ω ~31 mA (1.70 Ah) | 680 Ω ~5 mA (2.17 Ah) | 1.8 kΩ ~2 mA (2.20 Ah) | 12 kΩ ~0.3 mA (2.17 Ah) | 40 kΩ ~90 µA (2.12 Ah) | 147 kΩ ~25 µA (1.72 Ah) |

TERMINATIONS & ORDERING NO.

SUFFIX- /S STANDARD	15-5903-21430
SUFFIX- /T SOLDER TABS	15-5903-31430
SUFFIX- /P AXIAL PINS	15-5903-41430
SUFFIX- /PT2 RADIAL PINS	15-5903-36430
SUFFIX- /TP POLARIZED TABS	15-5903-52430
SUFFIX- /PT POLARIZED TABS	15-5903-53430

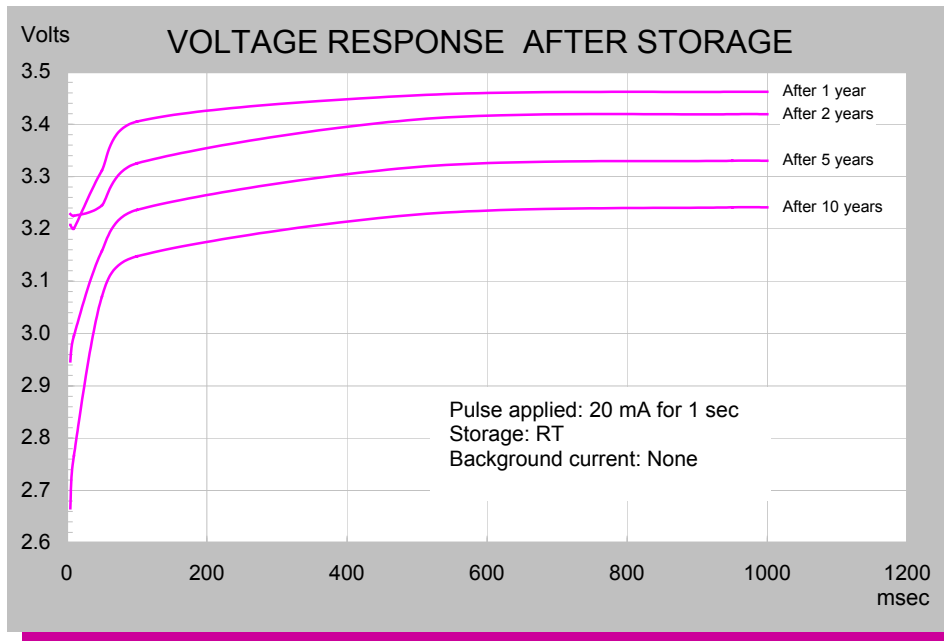### VOLTAGE VS. TEMPERATURE

CAPACITY VS. CURRENT

LONG TERM HIGH PERFORMANCE

Note: Any presentations in this data sheet concerning performance are for information purpose only and are not construed as warranties either expressed or implied, of future performance.

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TL-5903R

TADIRAN LITHIUM BATTERIES

CELL FEATURES

- 3.6 V Primary lithium-thionyl chloride (Li-SOCl2)
- Fast voltage recovery after long term storage and/or usage
- High energy density
- High and stable operating voltage
- Low self discharge rate
- 10 years shelf life
- Bobbin construction
- Hermetic glass-to-metal-sealing
- Non-flammable electrolyte
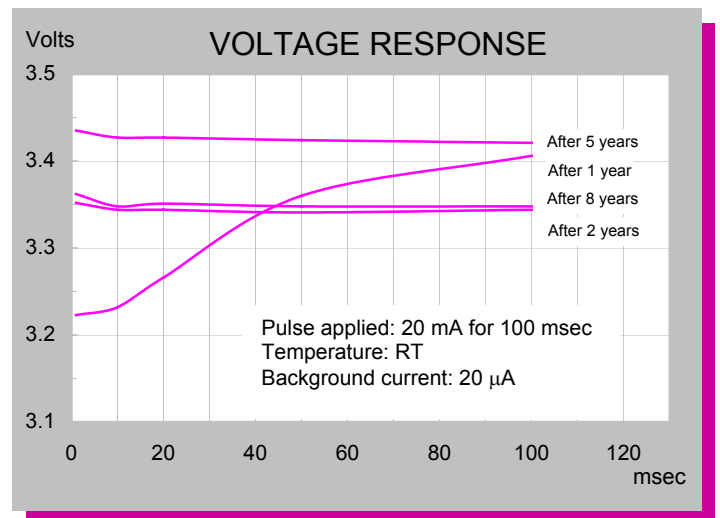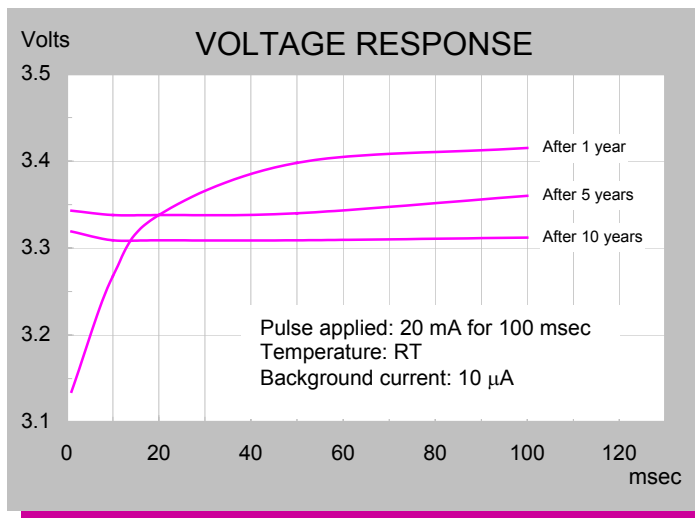- Non-restricted for transportation

MAIN APPLICATIONS

- Utility meters (elect., water & gas)
- Automatic meter reading
- RF systems
- Sensors & monitoring systems
- Tracking systems
- Wireless security systems
- Automotive electronics
- Industrial electronics
- Ultra Low Power (ULP) devices
- Others

STORAGE CONDITIONS

- Cells should be stored in a clean & dry (less than 30 % RH) area
- Temp. should not exceed +30 ºC

For updated information please visit our website **www.tadiranbat.com**

VOLTAGE RESPONSE AFTER STORAGE

Volts

After 1 year
After 2 years
After 5 years
After 10 years

Pulse applied: 20 mA for 1 sec
Storage: RT
Background current: None

(msec)

VOLTAGE RESPONSE

Volts

After 1 year
After 5 years
After 10 years

Pulse applied: 20 mA for 100 msec
Temperature: RT
Background current: 10 μA

(msec)

VOLTAGE RESPONSE

Volts

After 5 years
After 1 year
After 8 years
After 2 years

Pulse applied: 20 mA for 100 msec
Temperature: RT
Background current: 20 μA

(msec)

LONG TERM HIGH PERFORMANCE

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