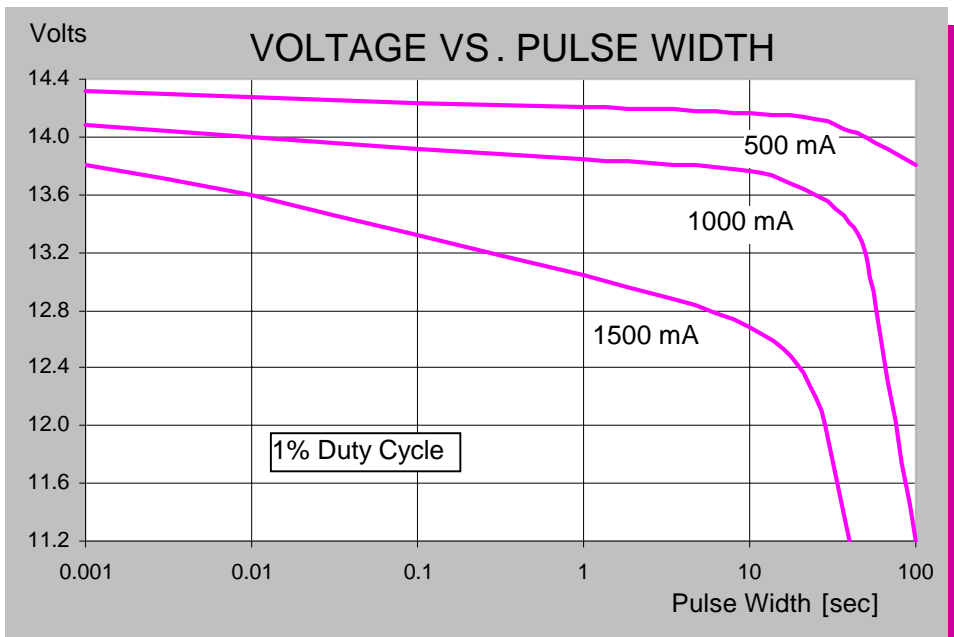# MODEL TLP-93181/D/OCN2

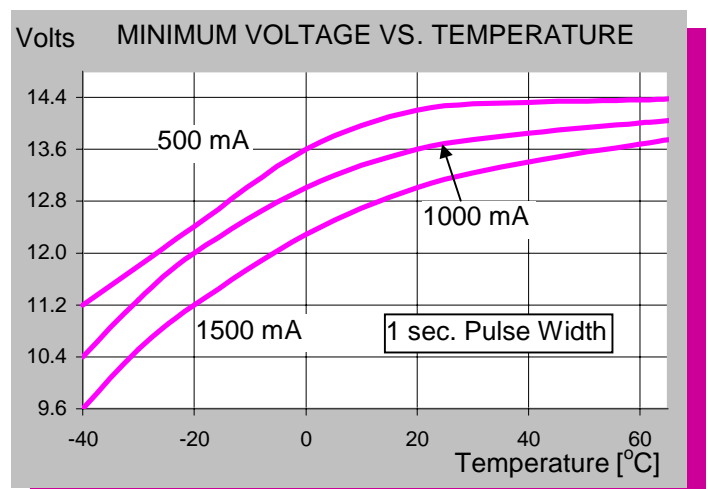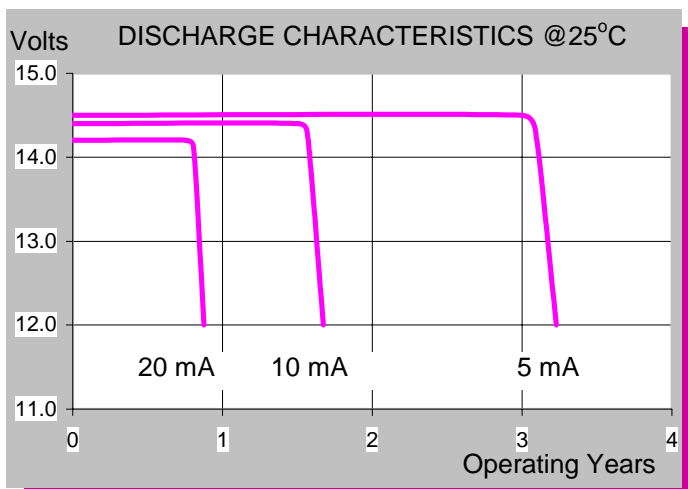## For Oceanographic Applications

PERFORMANCE DATA @ 25°C

- Nominal capacity to 12.0V (@ 3A & 1% duty cycle) 152 Ah
- Open circuit voltage 14.68 V
- Maximum 1 second pulse to 12.0V 3 A
- Delay time to 12.0V (@400 mA after 1 year) <1 msec.
- Weight 3,250 gr.
- Capacity retention after 10 years 85%
- Operating temperature -40°C to +60°C

TADIRAN LITHIUM BATTERIES

- **High Energy Density**
- **Over 15 Times Lighter Than Equivalent Alkaline Battery**
- **Over 10 Times Smaller Than Equivalent Alkaline Battery**
- **Excellent For Low Temperature Applications**
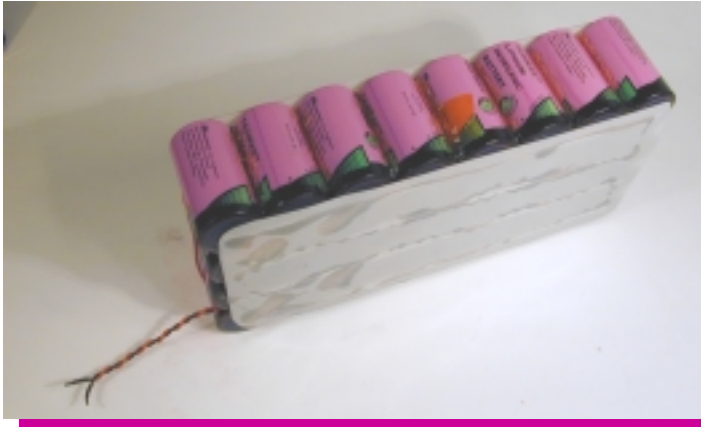- **Up to 3A Pulse Capability**
- **Instant Voltage Response**

Ordering No.: 61931811100

VOLTAGE VS. PULSE WIDTH

500 mA
1000 mA
1500 mA
1% Duty Cycle

Volts (y-axis): 11.2, 11.6, 12.0, 12.4, 12.8, 13.2, 13.6, 14.0, 14.4
Pulse Width [sec] (x-axis): 0.001, 0.01, 0.1, 1, 10, 100

DISCHARGE CHARACTERISTICS @25°C

20 mA   10 mA   5 mA

Volts (y-axis): 11.0, 12.0, 13.0, 14.0, 15.0
Operating Years (x-axis): 0, 1, 2, 3, 4

MINIMUM VOLTAGE VS. TEMPERATURE

500 mA
1000 mA
1500 mA
1 sec. Pulse Width

Volts (y-axis): 9.6, 10.4, 11.2, 12.0, 12.8, 13.6, 14.4
Temperature [°C] (x-axis): -40, -20, 0, 20, 40, 60

PulsesPlus

MODEL TLP-93181/D/OCN2
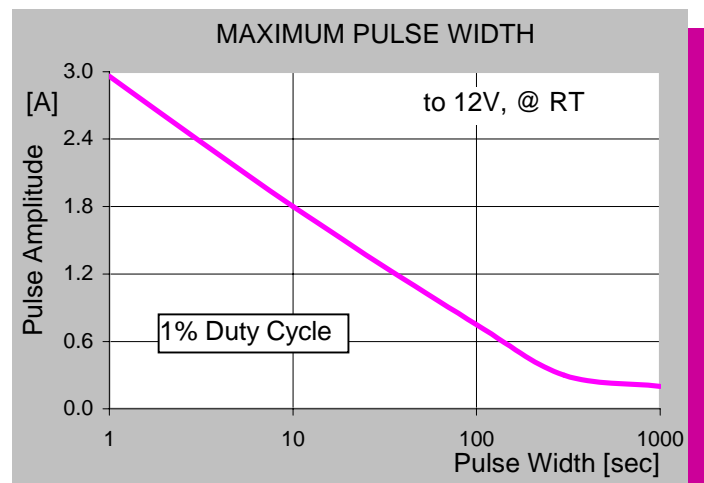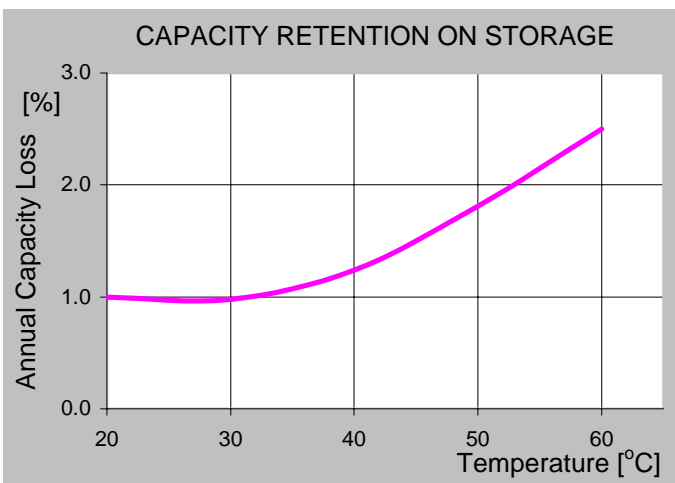
For Oceanographic Applications

TADIRAN LITHIUM BATTERIES

Transportation

The Battery Passed the test required by the "UN Manual of Test and Criteria". Therefore it can be transported via all modes (air, sea, rail and truck) as class 9 (UN 3090 or UN 3091).

The Battery should be packed according to "packing Group II". The Packing instructions for a battery are 903 (for Passenger and Cargo Aircrafts), 9033 (Sea transport) and 2906 (for Road / Railway).

When the battery is contained in equipment or packed with equipment, the packing instructions, in addition to the above, are 912 and 916 for air shipments.
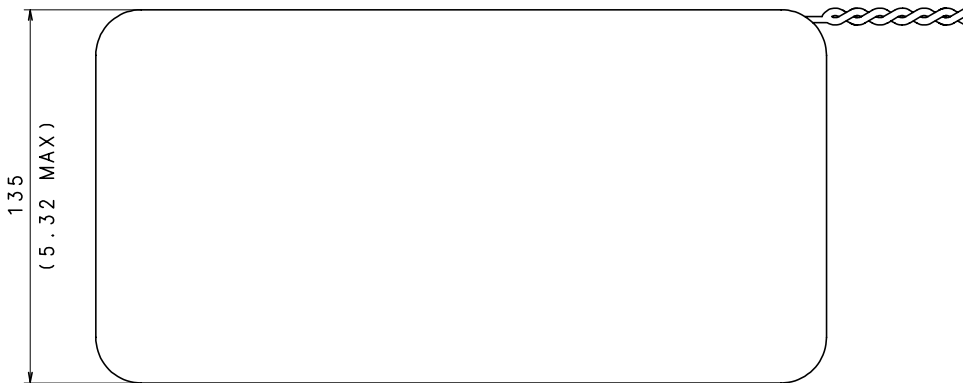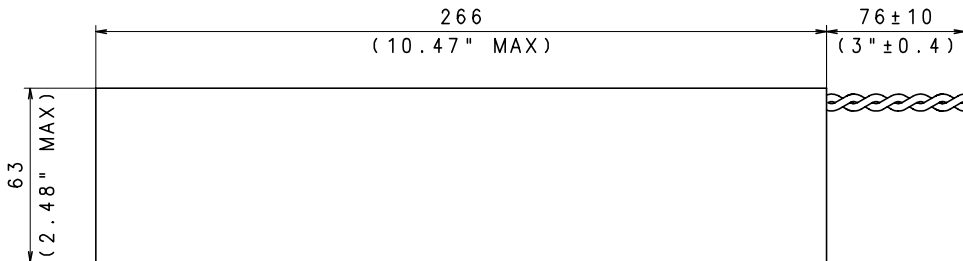

CAPACITY RETENTION ON STORAGE

MAXIMUM PULSE WIDTH

to 12V, @ RT

1% Duty Cycle

PulsesPlus

Note: Any presentation in this brochure concerning performance, are for informational purposes only and are not construed as warranties either expressed or implied, of future performance.

Rev. B 11/01

MODEL TLP-93181/D/OCN2

For Oceanographic Applications

Mechanical Dimensions:

Electrical Diagram:
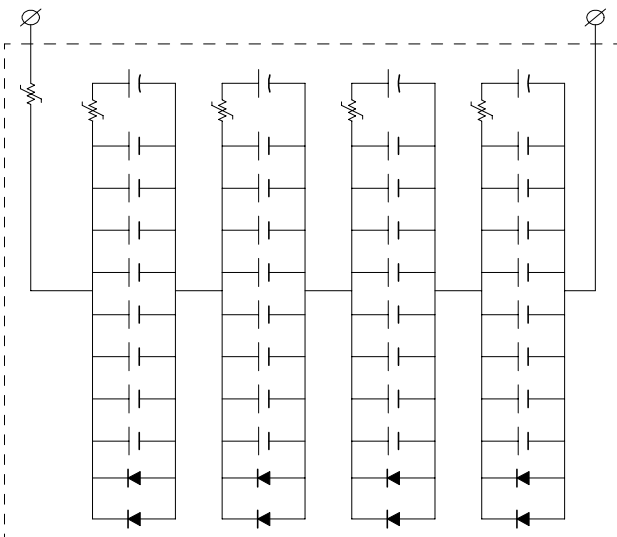
Wires (+ / -)	∅
PTC, SRP 200	
HLC-1550	
Diode, VSK 540	
Battery, TL-5930	

PulsesPlus

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Rev. B 11/01