



AMERI-KING CORP.



406 MHZ SATELLITE PLB PERSONAL LOCATOR BEACON
(406 / 243.0 / 121.5) MHz, MODEL NO. AK-451-PLB (P-ELT)(P-EPIRB)



WORLD'S LEADING PRODUCER OF SATELLITE PLB (P-ELT) (P-EPIRB)

DESCRIPTION

The Ameri-King AK-451-PLB (P-ELT)(P-EPIRB) is a COSPAS-SARSAT & FCC approved, 406 MHz Satellite PLB Personal Locator Beacon, triple (406 Satellite / 243 Military / 121.5 Civilian) MHz frequencies.

Having triple frequencies insures your distress message reaches both NOAA Satellite Operation and US Air Force AFSR Ground Operation, Search and Rescue Team, with 100% confidence, due to transmitting on both 243.0 Military and 121.5 Civilian bands, for immediate ground search dispatch, narrowing the searching time to the minimum. Alert time is typically within 3 minutes. The distress signal shall then be pin pointed by AFSR Direction Finder DF-406/243/121.5 MHz sophisticated equipments.

The Position accuracy of the 406 MHz satellite qualitative test is about 110 meters at 9.5 degree Cross Track Angle, on the dry ground (found in Satellite Qualitative Test at a COSPAS-SARSAT approved Laboratory).

The choice is clear when it comes to Safety, Speed, Accuracy, Reliability, Price and Product Support, Ameri-King's AK-451-PLB (P-ELT) (P-EPIRB) is your best choice.

FEATURES

- Applicable to all Outdoor Uses such as Hiking, Camping, Flying, Canoeing, Skiing, Boating, etc.
- Harsh/ Robust/ Heavy Duty PLB in an enduring composite Emergency Carrying soft case.
- Ultra long lasting Battery Package, **up to 78 hours @ -20 deg C, end of 5 yrs life**, 10 years useful life time Lithium type, LiMnO₂, 4 D-Size.
- Position data default accuracy: 80 meters typical
- **Protocol:** Coding Programming International Worldwide, all available PLB Protocols, i.e. Short and Long Messages (User / User Location / Standard Location/ National Location) PLB w/ Serial No.
- OXCO conv. tech for perfect grad temp stability.
- PERP: 5W+/-2 dB @ 406.028 MHz for 24Hrs
- PEIRP: (14-20) dBm @ 243 & 121.5 MHz for 78 Hrs @ -20 deg C, end of 5-year life.
- (4.27"W x 2.95" H x 5.64"L) 1 lb 14oz
- 500G tested and 1000 Lbs tested.
- Waterproof and Flame-retardant tested.
- Type Approvals: COSPAS-SARSAT, FCC.
- Exceeds RTCM Standards.
- Patent Pending

Made in U.S.A.

SPECIFICATIONS FOR MODEL AK-451-PLB (P-ELT)(P-EPIRB)

APPROVALS: FCC and Cospas-Sarsat PLB Personal Locator Beacon, Type PLB

PHYSICAL CHARACTERISTICS:

*Size and Weight:

Main unit: (4.27"Wx2.95"Hx5.64"L) 11lb 14 oz

Portable antenna: (17"L) 4 oz

Aural Monitor: (0.7"Dia x 1"D) 0.3 oz

*Case and color:

High impact, fire resistant, waterproof, high temperature ABS plastic, safety international orange color

GENERAL SPECIFICATIONS (STANDARD CONDITIONS):

Operating frequencies: 406.028 +/- 0.001 MHz
243.0/ 121.5 MHz +/- 0.0025%

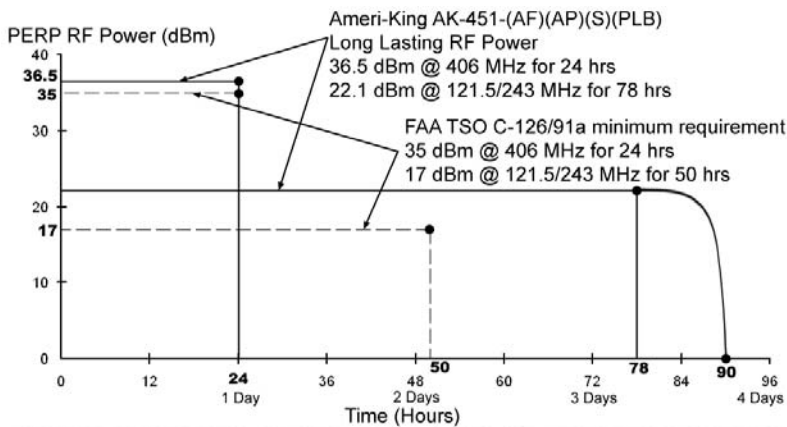
Transmitter Power Output:

5 W +/- 2 db @ 406 MHz, for 24 Hrs

22 +/-2 dBm @ 243 and 121.5 MHz, for 78 Hrs

Self Test: Built-in with Failure detection flashing code number for Diagnostic Maintenance check: RF Output Power & Frequencies, Battery Low Voltage, PLB shuts down etc.

OPERATING LIFE, 78 HRS @ -20 deg C @ End of 5 years Battery Life (TYP):



TYPICAL LIFE TEST @ -20 DEGREES C @ END OF 5-YEAR BATTERY LIFE

ENVIRONMENTAL TEST SPECIFICATIONS:

* RTCA DO – 204A / 183 / 227

* RTCA DO – 160E ENV.CAT F1XBA[204/183][204/183]XR[204/183]XXSZXXX(AC)204/183](BC)XXXX(C/204)

* **TEMP. AND ALTITUDE:** Category F1

Low / High Temperature: -20 / +55 deg C (Operating)
-55 / +85 deg C (Storage)

Altitude: 55,000 feet

* **CRASHWORTHINESS:** 100G, 23 ms, 6 directions

PROGRAMMING CODING PROTOCOLS:

Worldwide, all available PLB Protocols in Long and Short Messages (Standard/National/User)

User Location Protocol (Long Message): This option is formed by coding bits 1 through 106 of the PLB as a User Protocol.

Standard Location Protocol (Long Message): This option uniquely identifies the PLB using a unique serial number allocated by either the competent national authority or the beacon manufacturer accompanied with the Cospas-Sarsat beacon type approval certificate number.

National Location Protocol (Long Message): This option uses a unique serial number allocated by the competent national authority to uniquely identify the beacon.

Serial User Protocol (Non-location protocol) (Short Message): Coded with PLB's Unique Beacon Serial Number.

Note: PLB's leave Ameri-King Corp. with Standard Location Protocol (Long Message), but can be reprogrammed at a service center to other Protocol, including nationality of registration. The PLB may accept GPS/NAV position input by connecting the external GPS/NAV to the programming connector

ACCESORIES SUPPLIED: Lithium Batteries Package, Ultra Long 78 Hrs, LiMnO2, Portable Antenna

WARRANTY: Two (2) years. Optional extended four (4) years. Lifetime warranty includes no charge for the electronic components. After the warranty has expired, customers shall pay only the labor repair cost.

HOW TO ORDER:

AK-451-(PLB): PLB Personal Locator Beacon, 406/243/121.5 MHz.

4500010-1: Battery Package, Lithium, LiMnO2, 90 Hrs lasting.

TS-451: PLB Test Set and PLB Coding Equipment for AK-451

TS-451-ID: PLB Coding Reader Equipment for AK-451



AMERI-KING CORPORATION
TOMORROW'S TECHNOLOGY ... TODAY!!

17881 Sampson Lane., Huntington Beach, CA 92648

Tel: (714) 842-8555 - **Fax:** (714) 842-4235

Email: ameriking9@aol.com **Website:** www.ameri-king.com