747 400 systems study guide

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Boeing 747-400 Technical Specifications**

Electrical System

• AC: 115/200 VAC, 400 Hz

• DC: 28 VDC

ICAO Code

• B7474

Maximum Altitude

• 43,100 feet

V2 Speed (Safety Speed)

• 142 knots (263 km/h)

Maximum Fuel Load

• 57,285 US gallons (217,600 liters)

Fly-by-Wire

No

Hydraulic Systems

• 4 independent systems

Maximum Takeoff Weight

• 875,000 pounds (397,000 kg)

Length

• 231 feet 10 inches (70.67 m)

Wingspan

• 211 feet 3 inches (64.39 m)

Height

• 63 feet 6 inches (19.35 m)

Engines

- Pratt & Whitney PW4056
- Rolls-Royce RB211-524G/H

Payload (747-400F)

• 248,300 pounds (112,700 kg)

Wing Load

• 101 pounds per square foot (493 kg/m²)

Oldest 747-400 in Service

• Registered as N533PL, delivered in February 1989

Minimum Takeoff Distance

• 10,000 feet (3,048 m)

Glide Ratio

• 15:1

Code of Boeing 747-400

• B744

Characteristics of Boeing 747

- Jumbo jet with distinctive double-decker design
- Four high-bypass turbofan engines
- High passenger capacity
- Long-range capabilities

Origin of the Name "747"

• A numerical designation assigned by Boeing during its development

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