

Aluminum Box - 70*25*100mm, Split



Product Description

Aluminum enclosure is widely used in the electronics industry, typically for protecting and housing electronic devices, mechanical components, or other sensitive items. The whole consists of three main parts: the shell, front and rear baffles, and eight screws. The interior of the enclosure is designed with PCB slots or other optional mounting methods, allowing for flexible mounting of circuit boards and components. The surface is sandblasted or brushed and then anodized. The treated surface can be lasered or UV colour printed to add fonts and logos. The interior of the enclosure is designed with PCB slots or other optional mounting methods, allowing for flexible mounting of circuit boards and components. The surface is sandblasted or brushed and then anodized. The treated surface can be lasered or UV colour printed to add fonts and logos.

Product Features

1. Lightweight: the density of aluminum is 2.7g/cm, which is only about one-third the density of iron (7.8 g/cm) or copper (8.9 g/cm). This means aluminum enclosures offer significantly lighter weight while maintaining the same volume, greatly reducing the overall weight of the device, and making it easier to carry and install.

2. High Strength: The tensile strength of 6063 aluminum alloy is ≥ 175 MPa, the yield strength is ≥ 130 MPa, and the hardness is ≥ 65 HBW, which can effectively protect the safety of internal

equipment and components. Compared to plastic enclosures, aluminum enclosures are more resistant to external impacts and pressure, effectively preventing damage to the device.

3.Excellent Heat Dissipation: The thermal conductivity of 6063 aluminum alloy is about 166-201W/mK, allowing it to quickly transfer heat generated inside the device to the surface of the enclosure. This heat can then be dissipated through natural or forced ventilation, ensuring the device continues to operate normally.

4.Good Electromagnetic Shielding: Aluminum acts as an effective barrier against electromagnetic fields (EMF) and radio frequency interference (RFI).

Product Size

