6061 Aluminum Profile for Waterproof Electrical Box with Customized CNC **Machining and Precision Machining**

Basic Information

SONCAP, ISO, RoHS, TUV · Certification:

 Minimum Order Quantity: 500 Price: 1



Product Specification

· Grade: 6000 Series • Temper: T3-T8

6063 • Alloy:

• Surface Finishing: **Anodic Oxidation** • Tensile Strength: ≥ 265Mpa • Yield Strength: ≥ 245Mpa • Elongation: ≥ 8%

50000PCS /Month • Production Capacity:

Max Diameter: 350mm • Extrusion Lines: 44 Anodizing Lines: 6 • Powder Spraying Lines: 4 Machining Centers: 12 • Punching Machines: 30 . Bending Machines: 10



More Images









Product Description

6061 Aluminum Profile for Waterproof Electrical Box with Customized CNC Machining

MetalPlus manufactures high-quality customized standardized enclosures, including aluminum profile housing, die-cast aluminum boxes, standard aluminum chassis, rack mount housing, and CNC precision machined parts.

Product Features

Material Options: Al6063, Al6061, Al6005, Al6060 in T4, T5, T6, T66 tempers

Design Features: Slots in extrusion for PCB and component mounting

Surface Treatments: Anodizing, bead blasting, silk screening, various plating options, painting, powder coating, and more

Performance: Excellent EMC shielding, corrosion resistance, heat dissipation

Machining Capabilities: Drilling, bending, precise cutting, and fabrication

Applications: Communication, medical, photoelectric, safety, and instrumentation

Product Components

S/N	Part Name	Quantity	Material
1	Extrusion profile	1	AL6063
2	Front and rear panels	2	AL
3	Screws	4/8	SS

Key Specifications

Aluminum top and bottom plate with case design

Ideal for rail transit, power equipment, marine monitoring, and harsh environments

Extruded aluminum frame with die-cast panels for waterproofing and heat dissipation

Horizontal PCB/chassis mounting via inner-grooved frame

Suitable for industrial control boxes, outdoor WiFi access points, and measurement instruments

Technical Data

Chemical Composition (%):

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Impurity	Al
6063	0.2-0.6	0.35	0.1	0.1	0.45-0.9	0.1	0.1	0.1	0.15	Rest
6061	0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.15	Rest

Mechanical Properties:

Alloy	Temper	Tensile Strength	Yield Strength	Elongation
6063	T5	≥ 160Mpa	≥ 110Mpa	≥ 8%
6061	T6	≥ 265Mpa	≥ 245Mpa	≥ 8%

Technical Support

Custom design services including CAD drawings and 3D models

R&D team for design optimization and cost reduction

Complete in-house production from design to surface treatment

Strict quality control throughout manufacturing process

Manufacturing Capabilities

Extrusion: 44 aluminum extrusion lines with maximum diameter of 350mm

Anodizing: 6 production lines with uniform oxidation film thickness

Painting: 4 powder spraying lines using Gema Switzerland equipment

CNC Machining: 12 PRATIC machining centers for complex profile processing

Quality Assurance

ISO9001:2015, ISO13485:2016 certified

	SGS, RoHS, TU compliant
	Strict quality control procedures
	NDA (Non-disclosure Agreement) available
A	pplications
lr	overters, signal amplifiers, video pushers, lithium-ion battery changers, mini hosts

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