Energy Storage Series

E100,E120 Energy Storage Waterproof Connctors

Product Description：

This product complies with international standards such as UL, TUV, and RoHS in terms of technical performance; the male and female ends are securely locked with a press-fit latch design, offering the advantages of safe and firm locking, smooth plugging and unplugging, with more than 500 repeat plugging and unplugging cycles; the shell is made of PA66+GF material, ensuring stable electrical performance of the product, as well as excellent physical and chemical properties such as high-temperature resistance and corrosion resistance; at the same time, the conductive parts are processed with silver plating, ensuring excellent conductivity and meeting the product's temperature rise requirements even in high-temperature environments

This series of products offers a variety of models for users to choose from, including E100,E120.

The appearance of the negative pole of this product is black, the appearance of the positive pole is orange, and red is also available for selection.

Applicable standards: Compliant with UL, TUV, RoHS, CE, and other standards.

Reference Standard:

UL4128 GBT11918.1-2014 GBT4208-2017 GBT35935.1 QC/T 417.1-2001

Materials and Finishes:

Electroconductive parts:Phosphor Bronze T2, Beryllium Copper/Silver

Plating Housing:PA66+GF

Insulator:PA66+GF

Seal: Silicone

Spring:Stainless Steel SUS304

Electrical Characteristics：

Rated Voltage: 1500V DC

Rated Current：100A/120A

Insulation Resistance：500V DC/500MΩ

Withstand Voltage (AC)：7000V DC

Contact Resistance：≤1mΩ

Mechanical Characteristics:

Mating Cycle Life：≥500 次

Pin Retention Force：≥300N

Plug-Socket Retention Force：≥150N

Environmental Characteristics:

Operating Temperature：-40℃~+125℃

Protection Rating：IP67

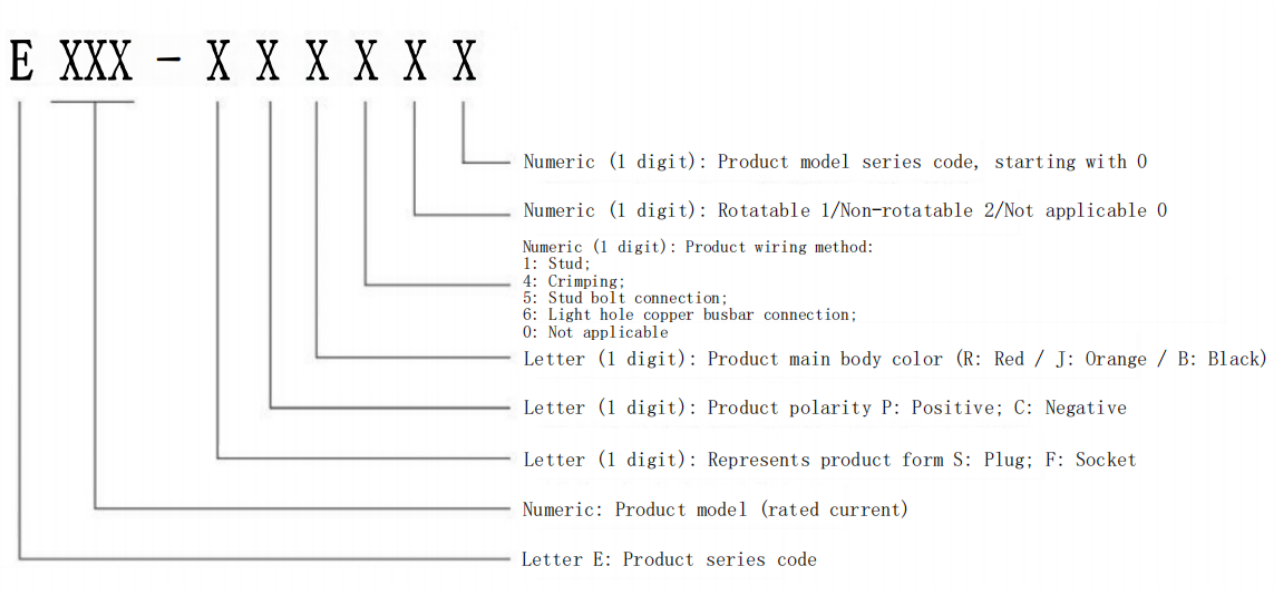
Salt Spray Requirement：72H

Altitude：2000m Max

Connector Model and Cable Selection Table：

Series	Wire Guage(mm²)	Rated Current (A)
E100	16	100
E120	25	120

Nomenclature Rules:

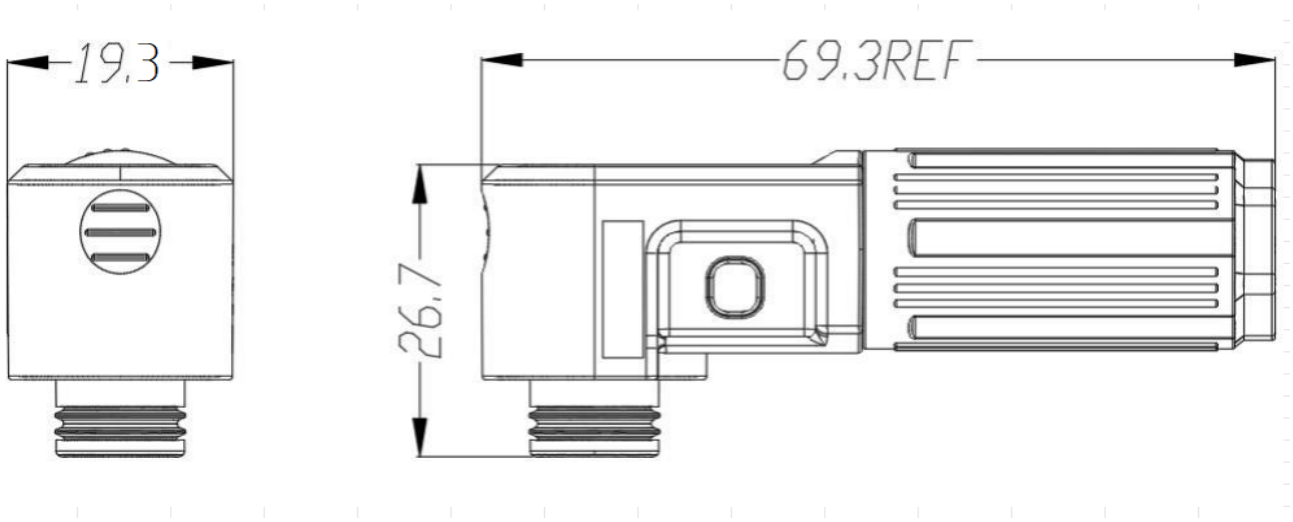


Installation Requirements:

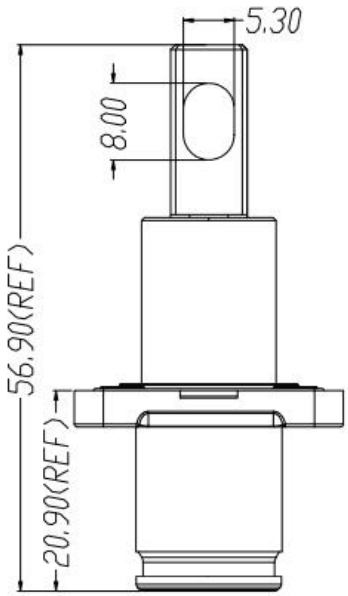
The wire and plug end are connected using a riveting method, while the wire and socket e nd can adopt one of four methods: stud bolt, light hole copper busbar, crimping, or stud. The riveting should be secure and free from looseness.

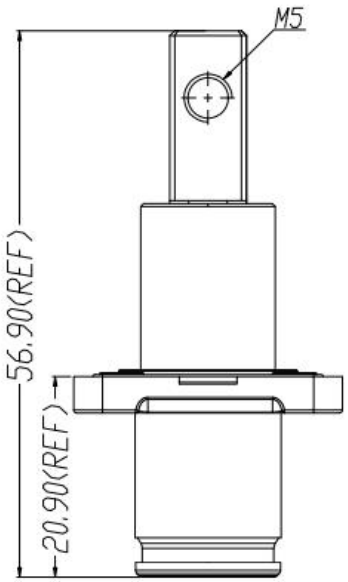
The product's external dimensions and mounting dimensions are as shown in the following figure.

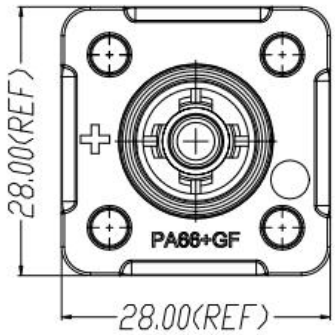
E100/E120 Series Plug



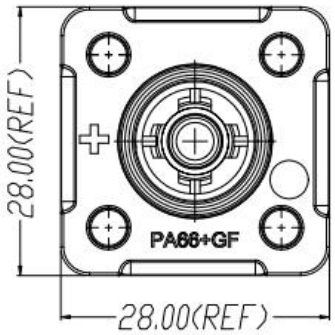
E100/E120 Series Socket





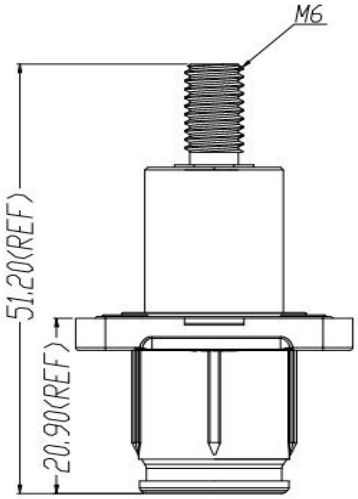


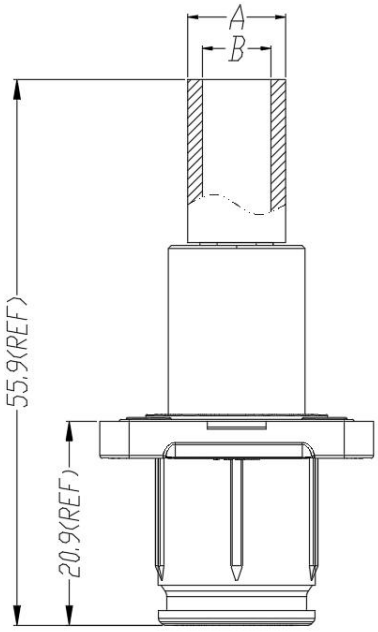
Screw Hole
Copper Bar Terminal

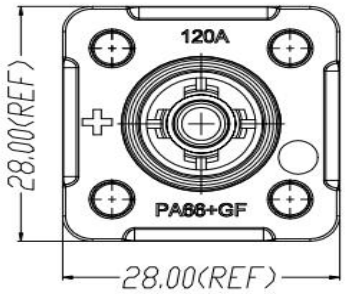


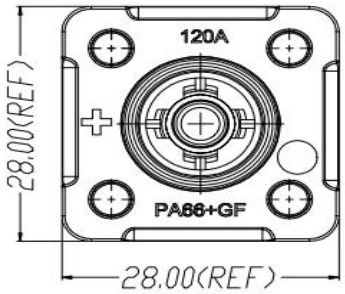
Through Hole
Copper Bar Terminal

Series	Wire Guage (mm²)	Size (A)	Size (B)
E100	16	⌀ 9	⌀ 6
E120	25	⌀ 10	⌀ 7









Stud

Crimping

Mounting Hole Dimensions: