

Transfer or duplication of this document as well as the utilization or communication of its contents are prohibited unless explicit authorization is granted. Violations will be liable for compensation. All rights reserved for patent, utility model or design registrations. 除专利、实用新型、外观设计、发明专利、软件著作权、集成电路布图设计专有权、商业秘密和与经营活动有关的知识产权外，其他知识产权均归本公司所有。未经许可，不得复制或传播。 未经授权，不得复制或传播。

FOR-1755 Rev.1.8

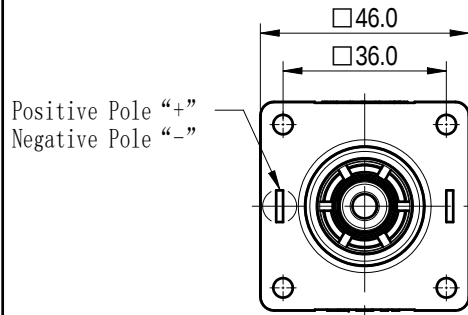
2

3

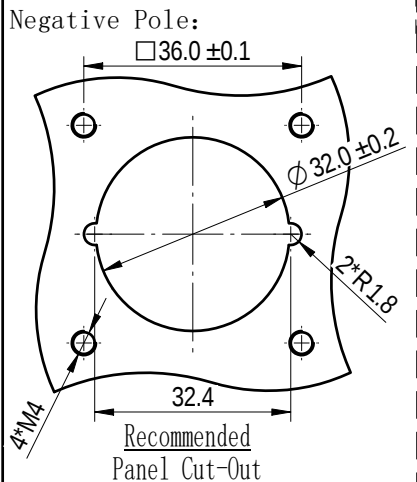
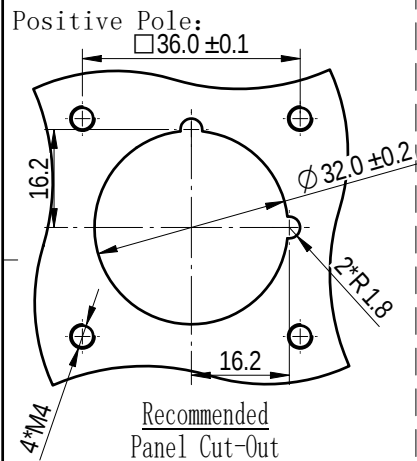
4

5

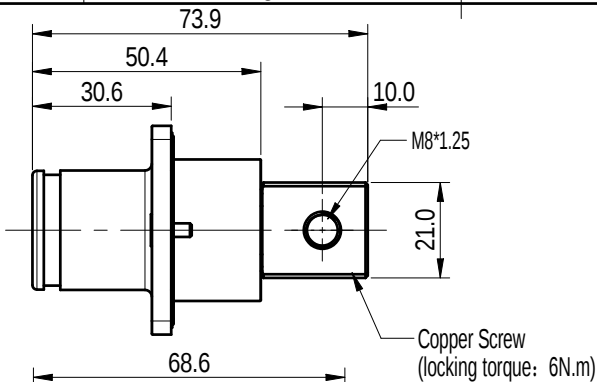
6



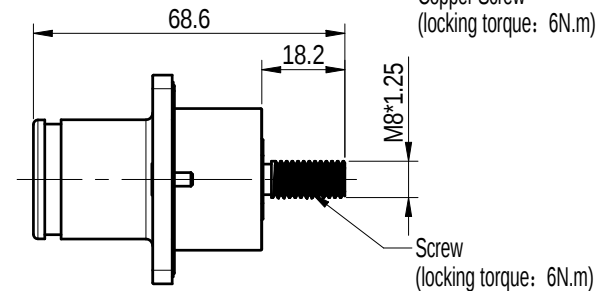
Other wiring forms:



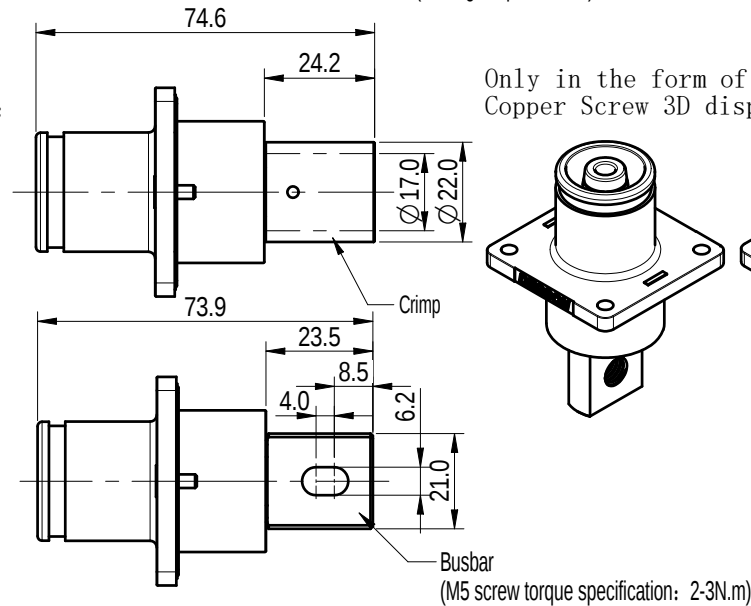
Form 1:



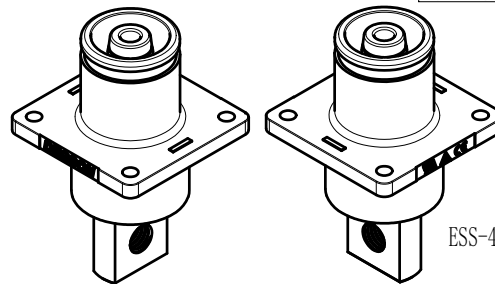
Form 2:



Form 3:



Only in the form of  
Copper Screw 3D display:



Color: BK : Black Negative Pole  
OR : Orange Positive Pole  
RD : Red Positive Pole

Contact Termination: B : Busbar  
C : Crimp  
S : Screw  
B/S : Copper Screw

| Dimensional tolerance(mm) |       |       |       |       |         |
|---------------------------|-------|-------|-------|-------|---------|
| 0                         | >30   | >60   | >100  | >150  | 0.05/10 |
| ~30                       | ~60   | ~100  | ~150  | ~150  | ±1°     |
| ±0.20                     | ±0.30 | ±0.50 | ±0.70 | ±1.00 |         |

| 技术要求/Technical requirements:                |                                      |
|---------------------------------------------|--------------------------------------|
| 颜色/Color                                    | Black, Orange, Red                   |
| 锁紧方式/Locking method                         | 卡扣(Buckle)                           |
| 接线方式/Terminal                               | Busbar, Screw, Crimp, Copper Screw   |
| 外壳材料/Housing material                       | PA+GF                                |
| 接触件材料/Connector material                    | 铜合金(Copper alloy)                    |
| 插入力/Insertion force                         | 80N Max                              |
| 拔出力/Withdrawal force                        | >10N                                 |
| 插拔次数/Mechanical working life(mating cycles) | 100                                  |
| 安装螺母紧固扭矩/Screw torque                       | M4/0.4~0.7N.m                        |
| 接线规格/Wiring specifications                  | 4/0AWG or 120mm²                     |
| 建议剥线长度/Suggested stripping length           | 22~24mm (Crimp type)                 |
| 线径OD/Wire diameter                          | 19~22mm (Crimp type)                 |
| 额定电压/Rated voltage                          | 1500V DC                             |
| 额定电流/Rated current                          | 350A                                 |
| 绝缘电阻/Insulate resistance                    | ≥5000MΩ (drying)                     |
| 耐电压/Withstanding voltage                    | 6800V/min                            |
| 接触电阻/Contact resistance                     | ≤0.5mΩ                               |
| 过电压等级/Overvoltage category                  | III                                  |
| 污染等级/Pollution degree                       | 3                                    |
| 防护等级/Ingress protection                     | IP67 (Mated)                         |
| 使用温度范围/Operating temperature(°C)            | -40~+125(including temperature rise) |
| 盐雾/Salt spray                               | 48H                                  |
| 储存温度/Storage temperature(°C)                | -40~+85                              |
| 阻燃等级/Flame retardant ability                | UL94-V0                              |
| 符合RoHS环保要求/Conform to RoHS                  | Yes                                  |
| UL4128认证/UL4128 certification               | E526028                              |
| TUV认证/TUV certification                     | 50581738                             |
| 满足户外使用/Satisfy outdoor use                  | Yes                                  |

|                                                                                          |  |  |                                                                                       |  |                                       |  |                  |                |         |       |
|------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|--|---------------------------------------|--|------------------|----------------|---------|-------|
|     |  |  | MATERIAL:                                                                             |  | SURFACE/COLOR:                        |  |                  |                |         |       |
|                                                                                          |  |  | MAT NO./REV:                                                                          |  | MAT STATUS:                           |  |                  |                |         |       |
| APPD: 刘剑                                                                                 |  |  | 2024.01.24                                                                            |  | NAME<br><br>ESS-400A-250-X-XX-00L (H) |  |                  |                |         |       |
| CHKD: 于进海                                                                                |  |  | 2024.01.21                                                                            |  |                                       |  |                  |                |         |       |
| DRFT: 张晓璐                                                                                |  |  | 2024.01.17                                                                            |  | DRAWING NO.                           |  | TYPE             | DRAWING STATUS | SCALE   | SHEET |
|  A4 |  |  |  |  | 200269870                             |  | CUSTOMER DRAWING |                | 1: 1.67 | 1/1   |

| 01  | ECN | DESCRIPTION | DRFT | DATE |
|-----|-----|-------------|------|------|
| REV | ECN | DESCRIPTION | DRFT | DATE |