

QS Connector Product Specification

1、Recommended Applications

lithium Battery Tower new energy replacement Controller Drone Other

2、Product Diagram

| Model | Picture | Outline Drawing |
|--------|---------|-----------------|
| QS12-F | | |

3、Specification

| Material | Specification | Plating | Coating Thickness |
|--------------|---------------|-----------|---------------------|
| Hardware | Cu | Gold (Au) | 1.5 μ |
| Material | Specification | Color | Flammability Rating |
| Plastic Case | PA | Black | UL94-V0 |

4、Feature table

| Electrical Properties | Characteristic |
|-----------------------------|--|
| Rated Current | 250A |
| Max Current | 320A |
| Rated Voltage | 500V DC |
| Contact Resistance | 0.2mΩ |
| Insulation Resistance | 500mΩ Min |
| Operating Temperature | -20°C+120°C |
| Insertion Force | During the service life, the insertion and extraction force of the discharge port is between 30N-90N |
| Mechanical Behavior | Characteristic |
| Rockwell hardness | >119R |
| Tensile breaking strength | >700kg/cm ² |
| Plug life | 3000times |
| Shear strength | >790kg/cm ² |
| Environmental Performance | Characteristic |
| warm experiment | Temperature 55°C±2°C, humidity 90%-95% environment for 48 hours, room temperature for 12 hours, no abnormal performance |
| Temperature resistance | Take 80°C±2°C, 12 hours → normal temperature for 4 hours → 30°C±2°C; 12 hours → normal temperature for 4 hours as a cycle, do 3 cycle tests, the performance is normal |
| High temperature resistance | After 12 hours at 55°C±2°C, there is no abnormal performance |
| Low temperature resistance | -30°C±2°C for 12 hours, no abnormal performance |
| Salt spray resistance | Meet the NSS 48-hour requirement, with no abnormal performance |

5、Qualification Certificate

UL CE RoHS2.0 Reach