

# QS Connector Product Specification

## 1、Recommended Applications

lithium Battery  
  Tower new energy replacement  
  Controller  
  Drone  
  Other

## 2、Product Diagram

Model	Picture	Outline Drawing
QS12H-M&F		

## 3、Specification

Material	Specification	Plating	Coating Thickness
Hardware	Cu	Gold (Au)	1.5 $\mu$
Material	Specification	Color	Flammability Rating
Plastic Case	PA	Black & Red	UL94-V0

## 4、Feature table

Electrical Properties	Characteristic
Rated Current	250A
Max Current	320A
Rated Voltage	500V DC
Contact Resistance	0.2m $\Omega$
Insulation Resistance	500m $\Omega$ 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 <sup>2</sup>
Plug life	3000times
Shear strength	>790kg/cm <sup>2</sup>
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