WPB-500

主动型熔断器 Proactive Fuse

产品信息 General Information

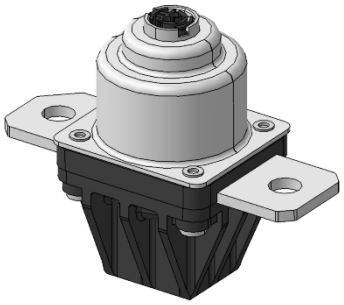
外部激励信号触发 Triggered by External Signal

最大通流可至 500A Maximum Continuous Current 500A

快速分断不可逆 Quick Irreversible Separation

温升功耗低 Low Temperature Rise & Power Consumption

应用场景：电动汽车和储能系统等 Applications: Electric Vehicles & Energy Storage Systems, etc



产品认证 Certificates

RoHS

产品参数 Parameter

连接参数 **Connection**	
额定电压 Rated Voltage	500V
载流能力 Continuous Current	≤500A
温升 Temperature Rise	＜25K@500A/4H

分断能力 **Breaking Capacity**	
感性负载 Inductive Load	475V/12kA/15μH
	475V/15kA/5μH
动作时间 Operating Time	≤3ms

母排 **Busbar**	
原料 Material	Cu
镀材（无铅）Plating Material (Lead-free)	Sn/Ni
分断前 Before Ops	<50μΩ
分断后 After Ops	≥1MΩ/500V
横截面 Cross Section	78mm^2

温度 **Temperature**	
工作温度 Operating Temperature	-40℃～+105℃
环境温度 Ambient Temperature	-40℃～+105℃
储藏温度 Storage Temperature	-40℃～+ 65℃
自触发 Self Triggering	≥300℃

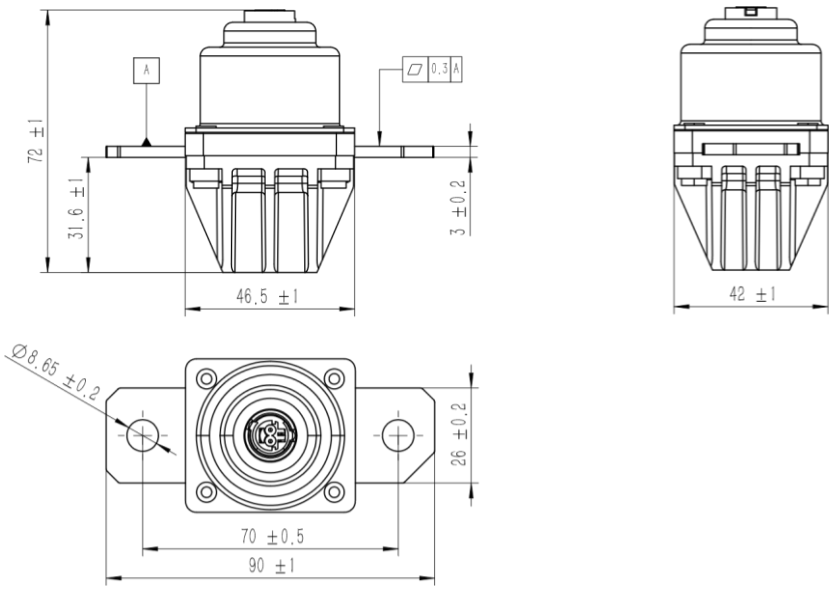
连接端类型 **Terminal Type**	
母排 On Busbar	M8
安装扭力 Torque	12N·m
触发器 On Initiator	AK-2

触发器参数 **Trigger Parameters**	
电阻 Resistance	1.7Ω~2.5Ω
触发电流 All Fire Current	1.75A/0.5ms
或 or	1.20A/2.0ms
不触发电流 No Fire Current	≤0.4A/10s
或 or	≤5.0A/4μs
检测电流 Diagnostic Current	≤100mA
资质标准 Standards	LV16 & USCAR28

其他参数 **Others**	
抗振动性能 Vibration Resistance	AK-LV 124
抗机械冲击性能 Mech. Shock Resistance	AK-LV 124
抗温度冲击性能 Temp. Cycle Resistance	AK-LV 124
化学品耐受性能 Chemical Loads Resistance	AK-LV 124
可燃性 Flammability	UL94-V0
重量 Weight	＜150g

外型尺寸 Dimensions

（单位 Unit：mm）



Contact Information

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Product Specification Statement

1.The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

2.The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

3.WAYON strives to provide accurate and up-to-date information to the best of our ability. However, due to technical, human, or other reasons, WAYON cannot guarantee that the information provided in the product specification is entirely accurate and error-free. WAYON shall not be held responsible for any losses or damages resulting from the use or reliance on any information in these product specifications. WAYON reserves the right to revise or update the product specification and the products at any time without prior notice, and the user's continued use of the product specification is considered an acceptance of these revisions and updates. Prior to purchasing and using the product, users should verify the above information with WAYON to ensure that the product specification is the most current, effective, and complete. If users are particularly concerned about product parameters, please consult WAYON in detail or request relevant product test reports. Any data not explicitly mentioned in the product specification shall be subject to separate agreement.

4.Users are advised to pay attention to the parameter limit values specified in the product specification and maintain a certain margin in design or application to ensure that the product does not exceed the parameter limit values defined in the product specification. This precaution should be taken to avoid exceeding one or more of the limit values, which may result in permanent irreversible damage to the product, ultimately affecting the quality and reliability of the system or equipment.

5.The design of the product is intended to meet civilian needs and is not guaranteed for use in harsh environments or precision equipment. It is not recommended for use in systems or equipment such as medical devices, aircraft, nuclear power, and similar systems, where failures in these systems or equipment could reasonably be expected to result in personal injury. WAYON shall assume no responsibility for any consequences resulting from such usage.

6.Users should also comply with relevant laws, regulations, policies, and standards when using the product specification. Users are responsible for the risks and liabilities arising from the use of the product specification and must ensure that it is not used for illegal purposes. Additionally, users should respect the intellectual property rights related to the product specification and refrain from infringing upon any third-party legal rights. WAYON shall assume no responsibility for any disputes or controversies arising from the above-mentioned issues in any form.