

SmartGen 众智

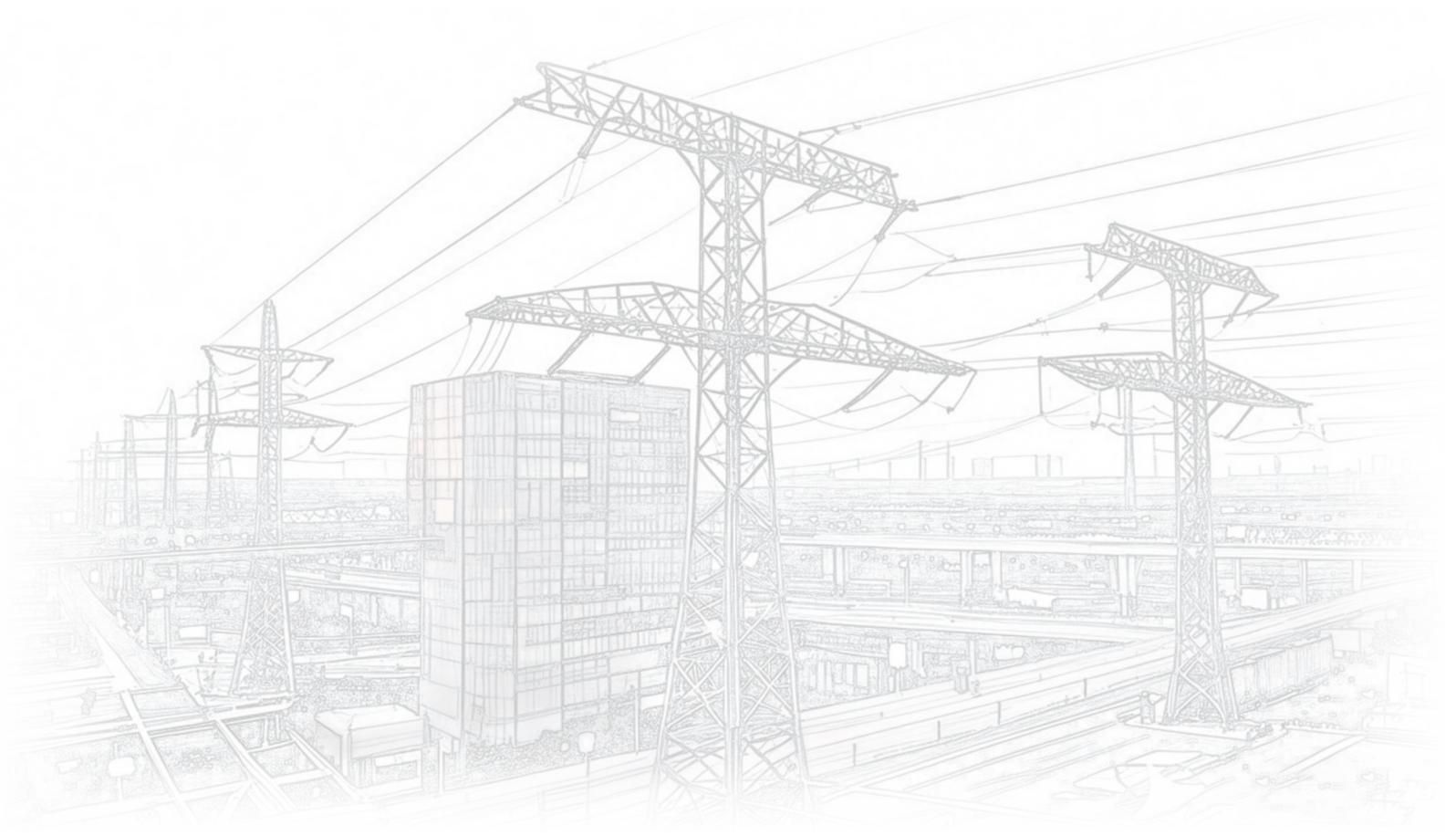
MAKING CONTROL SMARTER  
股票代码 Stock Code 301361

ATSE PRODUCT CATALOGUE  
智能切换产品选型样册

SMARTGEN(ZHENGZHOU) TECHNOLOGY CO., LTD.

[www.smartgen.com.cn](http://www.smartgen.com.cn)

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MAKING CONTROL SMARTER | 2026

SMARTGEN(ZHENGZHOU) TECHNOLOGY CO., LTD.

## ABOUT US 关于我们

始建于  
ESTABLISHED IN 1998

**1998**

公司总部  
HEADQUARTERS: ZHENGZHOU, CHINA

**中国·郑州**

产品类别  
PRODUCT CATEGORIES

**1000+**

客户  
CUSTOMERS

**3000+**

众智科技始建于1998年，创业板（股票代码301361）上市企业。

主要从事发动机、发电机和发电机组控制系统、新能源微网控制系统、智能电网控制系统等相关产品的研发、生产、销售和服务。产品广泛应用于矿山石油开采、智算中心、船舶、海岛、智能大厦、零碳园区、电信、基建、工商储等领域，业务范围遍布全球，在50多个国家和地区设有办事机构。

拥有数百项专利，有超过30%的员工致力于研发工作，坚持“让控制更智能”的核心理念，以推动行业技术进步为使命，不断创新与自我超越，为打造优质、安全、绿色、低碳可持续发展的产业生态链而不懈努力！

Established in 1998, SmartGen is a listed public company (stock code: 301361). The company specializes in the research and development, manufacturing, sales, and service of control systems for engines, generators and generator sets, new energy microgrid and smart grid. SmartGen's products are widely used across a broad range of industries including mining and oil extraction, AI data centers, ships, offshore islands, smart buildings, zero-carbon industrial parks, telecommunications, infrastructure, and commercial & industrial energy storage. With a global presence, we have set offices in more than 50 countries and regions. Holding hundreds of patents and with over 30% of its workforce engaged in R&D, SmartGen remains committed to its core philosophy of "Making Control Smarter". Driven by a mission to lead technological progress in the industry, SmartGen continually innovates and evolves, striving to build a high-quality, safe, green, low-carbon, and sustainable industrial ecosystem.



郑州雪梅街工厂 Zhengzhou Xuemei Street Factory



郑州金梭路工厂

## QUALIFICATIONS 资质



### 产品认证 Product Certification

CCC认证、CE认证、UL认证；CCS（中国船级社）认证、BV（法国船级社）认证、ABS（美国船级社）认证、NK（日本船级社）认证等  
CCC certification, CE certification, UL certification; CCS certification, BV certification, ABS certification, NK certification, etc.



### 管理体系 Management System

质量管理体系ISO9001、CCSR9001，环境管理体系ISO14001，职业健康管理体系ISO45001，知识产权管理体系GB/T29490，两化融合管理体系GB/T23001，双重预防管理体系等

The company has successively passed ISO9001 Quality Management System, CCSR9001 Professional Quality Management System Requirements for Marine Product Manufacturer, ISO14001 Environmental Management System, ISO45001 Occupational Health and Safety Management System, GB/T 29490 Intellectual Property Compliance Management System, GB/T23001 Integration of Informatization and Industrialization Management System, Dual Prevention Management System, etc.



Zhengzhou Jinsuo Road Factory



土耳其伊斯坦布尔工厂 Türkiye Istanbul Factory

# BUSINESS SECTORS

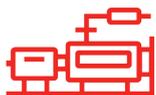
## 业务板块



### 新能源 New Energy

BMS、EMS、PCS、储能柜, AC/DC, DC/DC, 保护板

BMS, EMS, PCS, Energy Storage Cabinets, AC/DC, DC/DC, Protection Boards



### 发电机组控制 Genset Control

单机自启动, AMF, 多机并联, 并网, 灯塔控制, 燃油/电加热器, 充电器

Standalone Self-starting, AMF, Multi-unit Parallel, Grid connection, Lighting Tower Control, Fuel/Electric Heater, Chargers



### 交流发电机控制 Alternator Control

数字电压调节, 模拟电压调节

DVR, AVR



### 工程机械控制 Engineering Machinery Control

消防泵控制, 空压机控制, 发动机控制, CAN监控仪, 手油门, 遥控器

Fire Pump Control, Air Compressor Control, Engine Control, CAN Monitor, Manual Throttle Control, Remote Controller





### 智能电网控制 Smart Grid Control

双/多路电源切换、旁路切换，两进线一母联，三进线两母联，ATS

Dual/Multi-power Supply Switching, Bypass Switching, Two-income One Bus, Three-income Two Bus, ATS



### 船舶控制 Marine Control

EMS, PMS, 机旁, 电子电位器, 传感器

EMS, PMS, Local Control, Electronic Potentiometer, Sensors



### 云监控 Cloud Monitoring

公有云, 私有云, 云猫, SCADA, HMI

Public Cloud, Private Cloud, Cloud Monitoring Modem, SCADA, HMI



### 模块 Modules

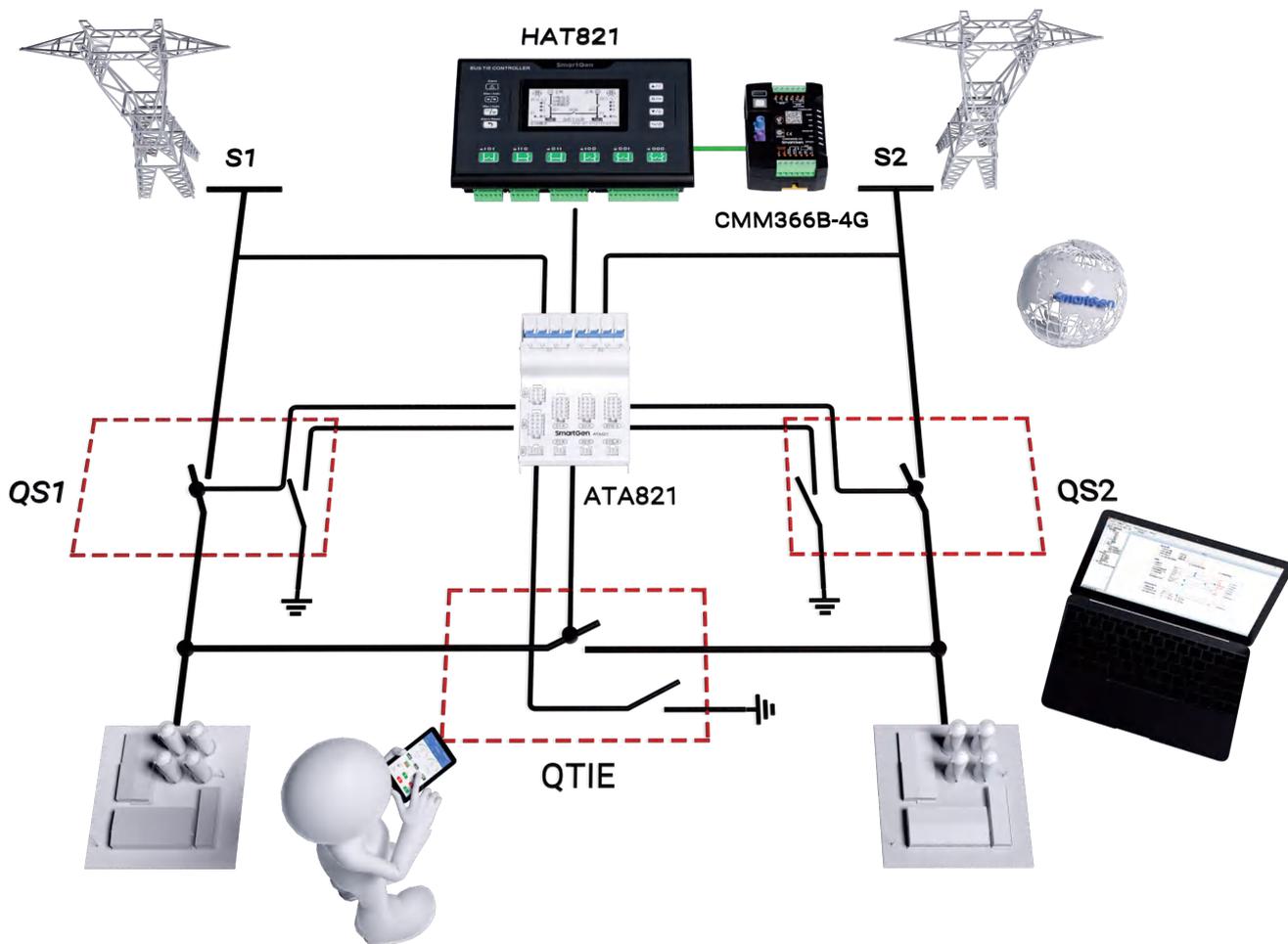
继保, 安保, 同步, 负载均分, USB, CANBUS, RS485, Ethernet, DI/DO/AI/AO, 光纤, 蓝牙, Wifi

Protection Relay, Redundant Protection, Synchronization, Load Sharing, USB, CANBUS, RS485, Ethernet, DI/DO/AI/AO, Fiber Optic, Bluetooth, Wi-Fi



## Two-Line One Bus-Tie Solution

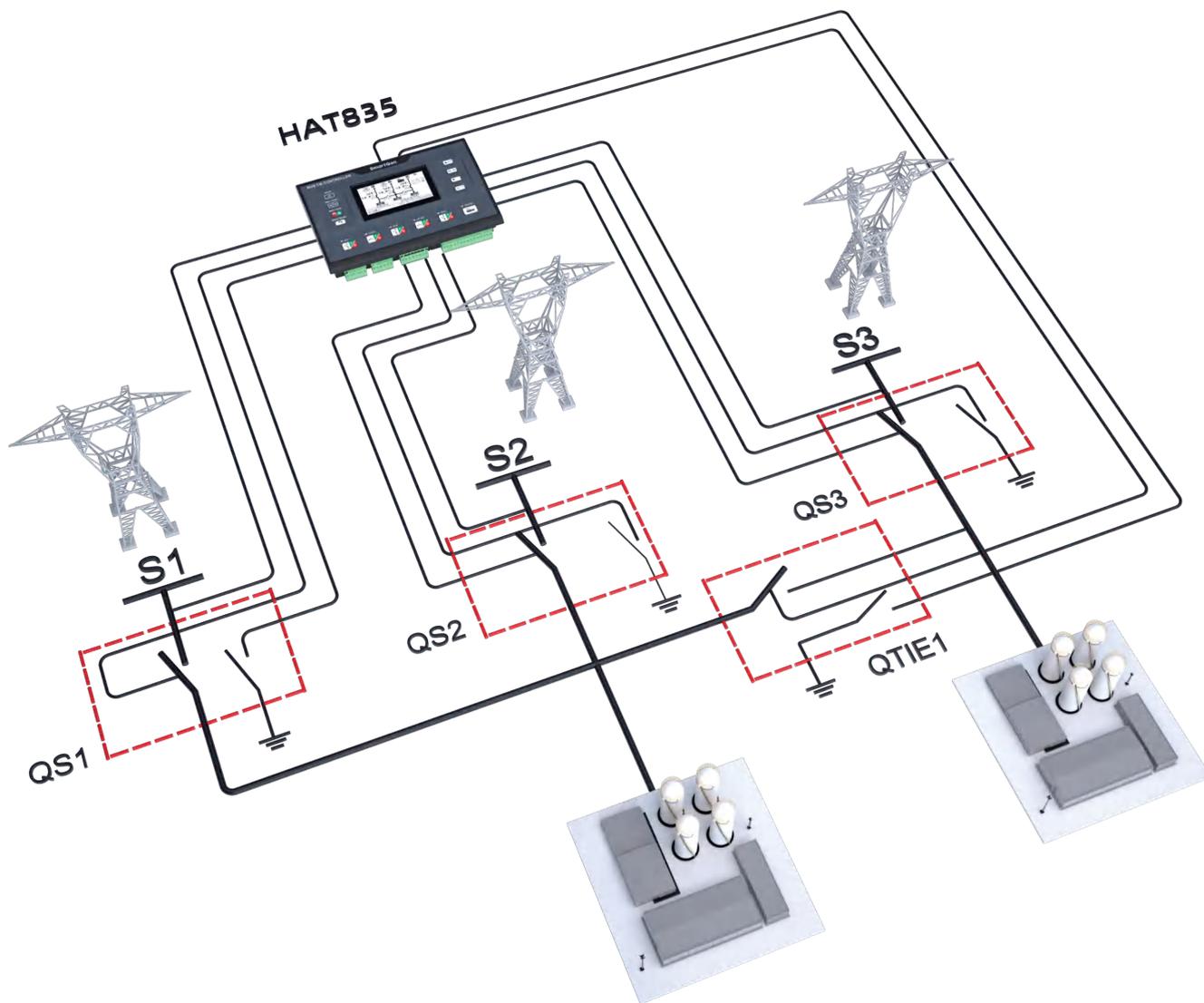
### 两进线一母联解决方案



HAT821: It can automatically transfer two incoming line switches and bus tie switches (3-in-2) according to the power status, main/standby status and auto-transfer/auto-restore of S1 and S2 to ensure continuous power supply to the load.

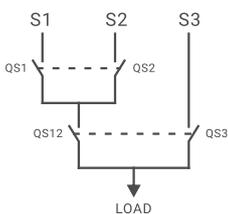
HAT821: 根据S1、S2电源状态、主用状态及自投自复状态，实现两台进线开关和母联开关3合2自动切换，保证负载供电。

## Three-Line Two/One Bus-Tie Solution 三进线两母联/一母联解决方案

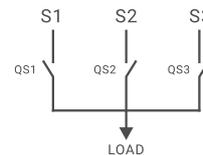


HAT835: It can automatically transfer three incoming line switches and two bus tie switches according to the power status, main/standby status and auto-transfer/auto-restore of S1, S2 and S3 to ensure continuous power supply to the load.

HAT835: 根据S1、S2、S3电源状态、主用状态及自投自复状态，实现三台进线开关和两台母联开关自动切换，保证负载供电。



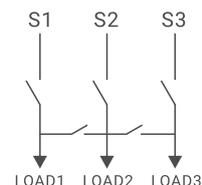
HAT832  
Three Power ATS Controller  
三电源自动切换控制器



HAT833/833S  
Three Power ATS Controller  
三电源自动切换控制器



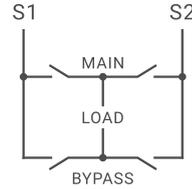
Model/型号	HAT832	HAT833	HAT833S
Main Functions 主要功能	Suitable for three power ATSE control system with two PC class ATS. 适用于两台PC级ATS开关组成的三电源智能切换控制系统。	Suitable for three power ATSE control system with three breakers, Adding parallel switching function on the basis of HAT833 function, HAT833S can realize uninterrupted switching closing and opening. 适用于三台断路器组成的三电源智能切换控制系统, HAT833S在HAT833的功能基础上增加了并联切换功能, 可实现先合后分不间断切换。	
Display 显示	LCD(240*128)px 4.3Inches/英寸		
Language 控制器语言	Chinese & English & Others/中文 & 英文 & 其他		
AC System 交流制式	1P2W/2P3W/3P3W(Special order required/需特殊订货)/3P4W		
AC Voltage Range 交流电压范围	AC(50~305)V(L-N)		
AC Frequency 交流频率	50/60Hz		
Current and Power Display 电流及功率显示	●		
Over Current Warn 过流警告	●		
Volt. Freq. Protection 电压频率保护	●		
Monitor Interface 监控接口	RS485-1/RS485-2		
Programming Interface 编程接口	USB/RS485-1/RS485-2		
Real-time Clock and Event Log 实时时钟及历史记录	●		
Scheduled Start Genset 定时试机	●		
Cycle Start Genset 循环开机	●		
Main Standby Transfer 主备用切换	●		
Synchronous Transfer 同步切换			●
Working Voltage 工作电压	DC(8~35)V/AC(90~305)V		
Programmable Input 可编程输入	8		
Programmable Output 可编程输出	12		
Case Dimensions 外形尺寸(mm)	260*180*54 (L*W*H)		
Panel Cutout 开孔尺寸(mm)	242*161		
Operating Temp. 工作温度	(-25~+70)°C		



HAT835/835S  
Three Power Bus Tie Controller  
三电源母联智能切换控制器



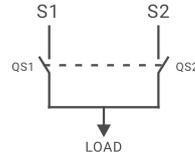
Model/型号	HAT835	HAT835S
Main Functions 主要功能	HAT835 Three Power Bus Tie Controller is the module with configurable function, automatic measurement, LCD display, and digital communication. 具有可编程功能、自动化测量、LCD显示、数字通讯为一体的三路电源母联切换模块。	Adding parallel switching function on the basis of HAT835 function, which can realize uninterrupted switching closing and opening. HAT835S在HAT835的功能基础上增加了并联切换功能，可实现先合后分不间断切换。
Display/显示	LCD(240*128)px 4.3Inches/英寸	
Language 控制器语言	Chinese & English & Traditional Chinese/中、英、繁体中文	
AC System 交流制式	1P2W/2P3W/3P3W(Special order required/需特殊订货)/3P4W	
AC Voltage Range 交流电压范围	AC(50~305)V(L-N)	
AC Frequency 交流频率	50/60Hz	
Volt. Freq. Protection 电压频率保护	●	
Monitor Interface 监控接口	RS485-1/RS485-2	
Programming Interface 编程接口	USB/RS485-1/RS485-2	
Real-time Clock and Event Log 实时时钟及历史记录	●	
Scheduled Start Genset 定时试机	●	
Cycle Start Genset 循环开机	●	
Main Standby Transfer 主备用切换	●	
Synchronous Transfer 同步切换		●
Working Voltage 工作电压	DC(8~35)V/AC(90~305)V	
Programmable Input 可编程输入	12	
Programmable Output 可编程输出	12	
Cass Dimensions 外形尺寸(mm)	260*180*54(L*W*H)	
Panel Cutout 开孔尺寸(mm)	242*161	
Operating Temp. 工作温度	(-25~+70)°C	



HAT880/880S  
Dual Power Bypass Automatic Switching Controller  
双电源旁路自动切换控制器



Model/型号	HAT880	HAT880S
Main Functions 主要功能	<p>It can control various bypass switches, applies to single bypass, double bypass transfer switches, manual control or remote control (electrically operated) bypass switches; It has main/bypass switch button unlock and unlock status display function; It has main/bypass switch button manual control and automatic control switching function, and main/bypass switch status display.</p> <p>可控制多种旁路开关，适用于单旁路、双旁路转换开关，手动控制或远程控制（电动操作）旁路开关。具有主/旁路开关按键解锁和解锁状态显示功能；具有主/旁路开关按键手动控制和自动控制投切功能，以及主/旁路开关状态显示。</p>	<p>It can control various bypass switches, applies to single bypass, double bypass transfer switches, manual control or remote control (electrically operated) bypass switches; It has main/bypass switch button unlock and unlock status display function; It has main/bypass switch button manual control and automatic control switching function, and main/bypass switch status display. Synchronous parallel switching function, the controller can track two electrical synchronization signals, instantaneous parallel connection to achieve uninterrupted switching.</p> <p>可控制多种旁路开关，适用于单旁路、双旁路转换开关，手动控制或远程控制（电动操作）旁路开关。具有主/旁路开关按键解锁和解锁状态显示功能；具有主/旁路开关按键手动控制和自动控制投切功能，以及主/旁路开关状态显示；同步并联切换功能，控制器可以追踪两路电同步信号，瞬间并联实现不间断切换。</p>
Display/显示	LCD(240*128)px 4.3Inches/英寸	
Language/控制器语言	Chinese & English & Others/中文 & 英文 & 其他	
AC System/交流制式	1P2W/2P3W/3P3W(Special order required/需特殊订货)/3P4W	
AC Voltage Range 交流电压范围	AC(50~305)V(L-N)	
AC Frequency/交流频率	50/60Hz	
Current and Power Display 电流及功率显示	●	
Over Current Warn 过流警告	●	
Volt. Freq. Protection 电压频率保护	●	
Monitor Interface/监控接口	RS485-1/RS485-2	
Programming Interface 编程接口	USB/RS485-1/RS485-2	
Real-time Clock and Event Log 实时时钟及历史记录	●	
Scheduled Start Genset 定时试机	●	
Cycle Start Genset 循环开机	●	
Main Standby Transfer 主备用切换	●	
Synchronous Transfer 同步切换	●	
Working Voltage/工作电压	DC(8~35)V	AC(90~305)V
Programmable Input 可编程输入	8	
Programmable Output 可编程输出	12	
Cass Dimensions 外形尺寸(mm)	260*180*54 (L*W*H)	
Panel Cutout 开孔尺寸(mm)	242*161	
Operating Temp. 工作温度	(-25~+70)°C	



HAT860  
Medium Voltage ATS Controller  
中压双电源自动切换控制器

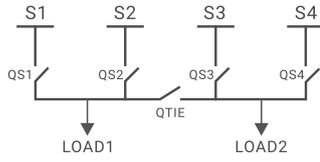


HMU8-860  
ATS Remote Monitoring Controller  
双电源远程监控控制器



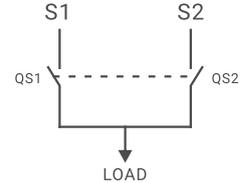
Model/型号	HAT860	HMU8-860
Main Functions 主要功能	HAT860 Medium Voltage ATS Controller is a module that integrates programmable function, automatic measurement, PT break detection, load stepwise switch, LCD display and digital communication. It can precisely detect 2-way 3-phase incoming voltage, make accurate judgment for voltage abnormal situations and output passive control coil. It can be widely used in the electric automatic control system of electric power, telecom, petrochemical industry, mining, railways, municipal administration, data center, intelligent building and other industries. 具有可编程功能、自动化测量、PT断线检测、负载逐级投切、LCD显示、数字通讯为一体的中压双电源切换模块。控制器可精确地检测两路三相进线电压，对出现的电压异常做出准确的判断并输出无源控制开关量。可广泛应用于电力、电信、石化、矿山、轨道交通、市政、数据中心、智能大厦等行业的电气自动控制系统。	HMU8-860 is used for the remote data monitoring and control of HAT860 MV-ATS controller. The two modules communicate via RS485 interface. 适用于HAT860中压双电源自动切换控制器的远程数据监测以及控制。两个模块之间通过RS485接口连接通信。
Display/显示	LCD(240*128)px 4.3Inches/英寸	LCD(800*600)px 8Inches/英寸
Language/控制器语言	Chinese & English & Others / 中文 & 英文 & 其他	Chinese & English / 中文 & 英文
AC System/交流制式	1P2W/2P3W/3P3W/3P4W	
AC Voltage Range 交流电压范围	AC(50~360)V(L-N)	
AC Frequency/交流频率	50/60Hz	
Current and Power Display 电流及功率显示	●	
Over Current Warn 过流警告	●	
Volt. Freq. Protection 电压频率保护	●	
Monitor Interface/监控接口	RS485-1/RS485-2	4-way RS485/4路RS485 CANBUS ETHERNET
Programming Interface 编程接口		RS485/USB
Real-time Clock and Event Log 实时时钟及历史记录	●	
Scheduled Start Genset 定时试机	●	
Cycle Start Genset 循环开机	●	
Main Standby Transfer 主备用切换	●	
Working Voltage/工作电压	B+, B-端: DC12V/24V/48V PA、PN 端: AC(90~305)V 或 DC110V/DC220V	DC10V - DC35V
Programmable Input 可编程输入	12	
Programmable Output 可编程输出	13	
Cass Dimensions 外形尺寸(mm)	260*180*54 (L*W*H)	221*163*51 (L*W*H)
Panel Cutout 开孔尺寸(mm)	242*161	205*147
Operating Temp. 工作温度		(-25~+70)°C

ATSE CONTROLLER / 智能切换控制器



HMAT841

Medium Voltage Four-Source Bus Tie Controller  
中压四电源母联控制器



HAT828

High Speed ATS Controller  
双电源快速切换控制器



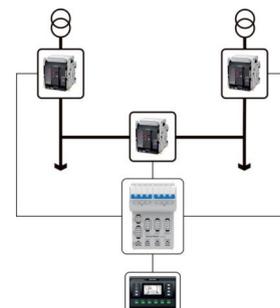
Model/型号	HMAT841	HAT828
Main Functions 主要功能	<p>Two HMAT841 controllers can communicate via ETHERNET, supporting cascade configuration to enable control and transfer for four incoming lines and one bus tie. Four HMAT841 controllers can connect through a switch network to build a redundant control architecture. It supports HMI interface for remote monitoring. It can be widely used in telecommunication, rail transport, data centers, smart buildings, power stations and other occasions which requires high quality power supply.</p> <p>两台HMAT841经 ETHERNET 通讯, 支持级联配置, 可实现四进线一母联的控制切换; 四台HMAT841通过交换机组网, 可构建冗余控制架构, 且支持HMI人机界面, 提供远程监控。广泛应用于电信、轨道交通、数据中心、智慧大厦、电站等供电要求高的场合。</p>	<p>HAT828 High Speed ATS Controller is a dual power transfer module that can output switch transfer signals within 10 ms in the case of any power outage, and synchronously transfer when both power supplies are normal. It is suitable for PC two-stage transfer switch (high speed and normal). With embedded operation system.</p> <p>HAT828是一款在任一路电源断电的情况下实现10毫秒内输出开关切换信号, 并且在两路电源均不断电时进行同步转换的双电源切换模块, 适用于PC二段式切换开关(快速与非快速切换)。</p>
Display/显示	5-inch TFT-LCD (800*480)px 5英寸彩屏	LCD(240*128)px 4.3Inches/英寸
Language/控制器语言	Chinese & English/中文 & 英文	Chinese & English & Others/中文 & 英文 & 其他
AC System/交流制式	1P2W/2P3W/3P3W/3P4W	
AC Voltage Range 交流电压范围	AC(50~360)V(L-N)	
AC Frequency/交流频率	50/60Hz	
Current and Power Display 电流及功率显示	●	
Over Current Warn 过流警告	●	
Volt. Freq. Protection 电压频率保护		●
Monitor Interface/监控接口	RS485-1/RS485-2/ETHERNET	RS485-1/RS485-2
Programming Interface 编程接口	USB/RS485-1/RS485-2/ETHERNET	USB/RS485-1/RS485-2
Real-time Clock and Event Log 实时时钟及历史记录		●
PT Wiring Broken Detection PT断线检测	●	
Cascading Setting/级联设置	●	
Redundancy Control/冗余控制	●	
Expansion I/O/扩展I/O	●	
Load Stepwise Transfer 负载逐级投切	●	
Quick Transfer Detection Time 快切检测时间		10ms
Working Voltage/工作电压	DC(8~35)V AC(90~305)V	DC(8~35)V AC(90~576)V
Programmable Input 可编程输入	12	8
Programmable Output 可编程输出	12	10
Cass Dimensions 外形尺寸(mm)	242*186*60 (L*W*H)	260*180*54 (L*W*H)
Panel Cutout 开孔尺寸(mm)	214*160	242*161
Operating Temp. 工作温度	(-25~+70)°C	



HAT821/821S  
Dual Power Bus Tie Controller  
双电源母联自动切换控制器



HAT821SI  
Dual Power Bus Tie Controller  
双电源母联自动切换控制器



Model/型号	HAT821	HAT821S	HAT821SI
Main Functions 主要功能	Suitable for ATSE control system with two incoming lines and one bus-tie(low voltage standby self-switchover). 适用于两进线一母联（低压备用自投）的电源切换控制系统。	Adding parallel switching function on the basis of HAT821 function, which can realize uninterrupted switching closing and opening. 在HAT821功能基础上增加了并联切换功能，可实现先合后分不间断切换。	HAT821SI Dual Power Bus Tie Controller is a medium voltage ATS module that integrates configurable function, automatic measurement, PT break detection, load stepwise transfer, intelligent unloading, parallel transfer and loop closing, LCD display and digital communication. 具有可编程功能、自动化测量、PT断线检测、负载逐级投切、负荷智能卸载、并联转换和合环功能、LCD显示、数字通讯为一体的双电源母联自动切换模块。
Display/显示	LCD(240*128)px 4.3Inches/英寸		
Language/控制器语言	Chinese & English & Others/中文 & 英文 & 其他		
AC System/交流制式	1P2W/2P3W/3P3W(Special order required/需特殊订货)/3P4W		1P2W/2P3W/3P3W/3P4W
AC Voltage Range/交流电压范围	AC(50~305)V(L-N)		AC(50~360)V(L-N)
AC Frequency/交流频率	50/60Hz		
Current and Power Display 电流及功率显示			●
Over Current Warn 过流警告			●
Volt. Freq. Protection 电压频率保护		●	
Monitor Interface 监控接口	RS485-1/RS485-2		
Programming Interface 编程接口	USB/RS485-1/RS485-2		
Real-time Clock and Event Log 实时时钟及历史记录		●	
Main Standby Transfer 主备用切换		●	
Synchronous Transfer 同步切换			●
Working Voltage 工作电压	DC(8~35)V/AC(90~305)V		B+、B-端：DC12V/24V/48V PA、PN端：AC(90~305)V或DC110V/DC220V
Programmable Input 可编程输入	8		12
Programmable Output 可编程输出	12		13
Case Dimensions 外形尺寸(mm)	260*180*54 (L*W*H)		
Panel Cutout 开孔尺寸(mm)	242*161		
Operating Temp. 工作温度	(-25~+70)°C		



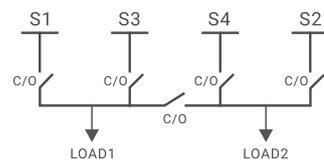
IPTS80-M41

Power ATS Controller Master Module  
电源自动切换控制器主控模块

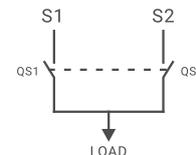


IPTS80-S

Power ATS Controller Slave Module  
电源自动切换控制器从控模块



Model/型号	IPTS80-M41	IPTS80-S
Main Functions 主要功能	It adopts a distributed layout solution with 1 master module and 5 slave modules, which is suitable for a 4-incoming line/1-busbar structure of two mains and two gensets. 采用1主控5从控的分体式布局方案，适用两市电两发电的4进线1母联结构。	
Display/显示	7-inch COLOR LCD (1024x600)px 7英寸彩色LCD液晶	3.5-inch COLOR LCD (320x240)px 3.5英寸彩色LCD液晶
Language/控制器语言	Chinese & English/中文 & 英文	
AC System/交流制式		1P2W/2P3W/3P3W/3P4W
AC Voltage Range/交流电压范围		AC(50 ~ 360)V(L-N)
AC Frequency/交流频率		50/60Hz
Current and Power Display 电流及功率显示	●	
Over Current Warn 过流警告		●
Volt. Freq. Protection 电压频率保护		●
Monitor Interface 监控接口	RS485-1/RS485-2/ETHERNET	RS485/ETHERNET
Programming Interface 编程接口	USB/RS485-1/RS485-2/ETHERNET	USB/RS485/ETHERNET
Real-time Clock and Event Log 实时时钟及历史记录	●	
Expansion I/O 扩展I/O	●	
Load Stepwise Transfer 负载逐级投切	●	
Ground Fault Protection 接地故障保护		●
PT Wiring Broken Detection PT断线检测		●
Working Voltage 工作电压	DC(8 ~ 35)V /AC(90 ~ 305)V/DC110V/DC220V	
Digital Input 开关量输入	4	9
Digital Output 开关量输出	3	7
Case Dimensions 外形尺寸(mm)	191*131*53(L*W*H)	236*180*74 (L*W*H)
Panel Cutout 开孔尺寸(mm)	182*122	201*151, 4×φ4.5mm
Operating Temp. 工作温度	(-25~+70)°C	



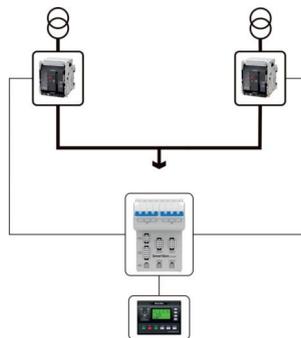
HAT820/820S  
Dual Power ATS Controller  
双电源自动切换控制器



Model/型号	HAT820	HAT820S
Main Functions 主要功能	<p>It can control various PC dual power switch, CB dual power switch. The controller can be powered by line voltage (L-L), with load voltage detection, temperature detection in cabinet, (fire cut) source input and other functions.</p> <p>可控制各种PC级双电源开关, CB级双电源开关。控制器可以线电压 (LL) 供电、具有负载电压检测、柜内温度检测、(消防切非) 有源输入等功能。</p>	<p>Based on the HAT820 function, increase the short-time Synchronous switching function; The controller can track two electrical synchronization signals and instantaneously connect in parallel to achieve uninterrupted switching.</p> <p>在HAT820功能基础上, 增加短时同步切换功能; 控制器可以追踪两路电同步信号, 瞬间并联, 实现不间断切换。</p>
Display显示	LCD(240*128)px 4.3Inches/英寸	
Language 控制器语言	Chinese & English & Others / 中文 & 英文 & 其他	
AC System 交流制式	1P2W/2P3W/3P3W/3P4W	
AC Voltage Range 交流电压范围	AC(50~360)V(L-N)	
AC Frequency 交流频率	50/60Hz	
Current and Power Display 电流及功率显示	●	
Over Current Warn 过流警告	●	
Volt. Freq. Protection 电压频率保护	●	
Monitor Interface 监控接口	RS485-1 / RS485-2	
Programming Interface 编程接口	USB / RS485-1 / RS485-2	
Real-time Clock and Event Log 实时时钟及历史记录	●	
Scheduled Start Genset 定时试机	●	
Cycle Start Genset 循环开机	●	
Main Standby Transfer 主备用切换	●	
Synchronous Transfer 同步切换		●
Working Voltage 工作电压	DC(8~35)V/AC(90~576)V	
Programmable Input 可编程输入	9	
Programmable Output 可编程输出	12	
Case Dimensions 外形尺寸(mm)	260*180*54 (L*W*H)	
Panel Cutout 开孔尺寸(mm)	242*161	
Operating Temp. 工作温度	(-25~+70)°C	



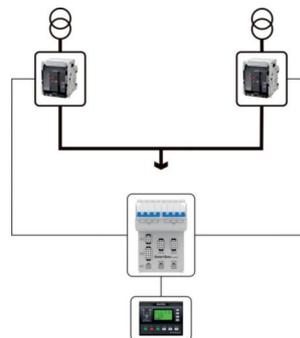
HAT600R(RB/RI/RBI/RS)  
Dual Power ATS Controller  
双电源自动切换控制器



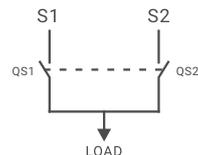
Model/型号	HAT600R	HAT600RB	HAT600RI	HAT600RBI	HAT600RS
Main Functions 主要功能	DC supply, with load voltage monitoring, in-phase transfer, fast transfer function. 直流供电、具有负载电压监测、同相位切换、快速切换功能;	AC/DC supply, with load voltage monitoring, in-phase transfer, fast transfer function. 交/直流供电、具有负载电压监测、同相位切换、快速切换功能;	DC supply, has current detection. with load voltage monitoring, in-phase transfer, fast transfer function. 直流供电、带电流检测、具有负载电压监测、同相位切换、快速切换功能;	AC/DC supply, has current detection. with load voltage monitoring, in-phase transfer, fast transfer function. 交/直流供电、带电流检测、具有负载电压监测、同相位切换、快速切换功能;	AC/DC supply, has current detection. with load voltage monitoring, in-phase transfer, fast transfer function; have parallel switching function. 交/直流供电、带电流检测、具有负载电压监测、同相位切换、快速切换功能、并联切换功能;
Display/显示	LCD(132*64)px				
Language/控制器语言	Chinese & English & Others/中文 & 英文 & 其他				
AC System/交流制式	1P2W/2P3W/3P3W/3P4W	1P2W/2P3W/3P4W	1P2W/2P3W/3P3W/3P4W		1P2W/2P3W/3P4W
AC Voltage Range 交流电压范围	AC(50~360)V(L-N)	AC(50~305)V(L-N)	AC(50~360)V(L-N)		AC(50~305)V(L-N)
AC Frequency/交流频率	50/60Hz				
Current and Power Display 电流及功率显示				●	
Over Current Warn 过流警告				●	
Volt. Freq. Protection 电压频率保护			●		
Monitor Interface 监控接口		RS485			RS485/EHTERNET
Programming Interface 编程接口		RS485/USB			RS485/USB/EHTERNET
Real-time Clock and Event Log 实时时钟及历史记录			●		
Quick Transfer Detection Time 快切检测时间			50ms		
Cycle Start Genset 循环开机			●		
Main Standby Transfer 主备用切换			●		
Synchronous Transfer 同步切换					●
Applicable ATS Type 适合开关类型	CC,CB and PC Switch/CC级、CB级和PC级开关				
Working Voltage 工作电压	DC(8~35)V	DC(8~35)V AC(90~305)V	DC(8~35)V	DC(8~35)V	AC(90~305)V
Programmable Input 可编程输入	4				
Programmable Output 可编程输出	6				
Case Dimensions 外形尺寸(mm)	198*154*54 (L*W*H)				
Panel Cutout 开孔尺寸(mm)	186*141				
Operating Temp. 工作温度	(-25~+70)°C				



HAT600P(PB/PI/PBI/PS)  
Dual Power ATSE Controller  
双电源自动切换控制器



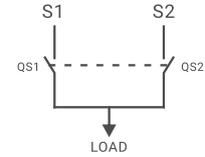
Model/型号	HAT600P	HAT600PI	HAT600PB	HAT600PBI	HAT600PS
Main Functions 主要功能	DC supply, With load voltage monitoring function. 直流供电、具有负载电压监测功能;	DC supply, has current detection, With load voltage monitoring function. 直流供电、带电流检测、具有负载电压监测功能;	AC/DC supply, With load voltage monitoring function. 交/直流供电、具有负载电压监测功能;	AC/DC supply, has current detection, With load voltage monitoring function. 交/直流供电、带电流检测、具有负载电压监测功能;	AC/DC supply, has current detection, With load voltage monitoring function, Have parallel switching function. 交/直流供电、带电流检测、具有负载电压监测功能、有并联切换功能。
Display/显示	LCD(132*64)px				
Language/控制器语言	Chinese & English & Others/中文 & 英文 & 其他				
AC System/交流制式	1P2W/2P3W/3P3W/3P4W		1P2W/2P3W/3P4W		
AC Voltage Range 交流电压范围	AC(50~360)V(L-N)		AC(50~305)V(L-N)		
AC Frequency/交流频率	50/60Hz				
Current and Power Display 电流及功率显示		●			●
Over Current Warn 过流警告		●			●
Volt Freq Protection 电压频率保护			●		
Monitor Interface 监控接口	RS485			RS485/ETHERNET	
Programming Interface 编程接口	RS485/USB			RS485/ETHERNET/USB	
Real-time Clock and Event Log 实时时钟及历史记录			●		
Scheduled Start Genset 定时试机			●		
Cycle Start Genset 循环开机			●		
Main Standby Transfer 主备用切换			●		
Synchronous Transfer 同步切换					●
Applicable ATSE Type 适合开关类型	CC,CB and PC Switch/CC级、CB级和PC级开关				
Working Voltage 工作电压	DC(8~35)V		DC(8~35)V/AC(90~305)V		
Programmable Input 可编程输入	4				
Programmable Output 可编程输出	6				
Case Dimensions 外形尺寸(mm)	198*155*54 (L*W*H)				
Panel Cutout 开孔尺寸(mm)	186*141				
Operating Temp. 工作温度	(-25~+70)°C				



HAT660(B/BI/S)  
Dual Power ATS Controller  
双电源自动切换控制器



Model/型号	HAT660B	HAT660BI	HAT660S
Main Functions 主要功能	AC/DC supply, With load voltage monitoring function, Standard RS485 and USB interface. 交/直流供电、具有负载电压监测功能、标配RS485和USB接口。	AC/DC supply, has current detection, With load voltage monitoring function, standard RS485/ USB ETHERNET interface. 交/直流供电、带电流检测、具有负载电压监测功能、标配RS485/USB和ETHERNET接口。	AC/DC supply, has current detection, With load voltage monitoring function, With Synchronous Switching function, standard RS485/ USB ETHERNET interface. 交/直流供电、带电流检测、具有负载电压监测功能、有同步切换功能、标配RS485/USB和ETHERNET接口。
Display/显示	LCD(132*64)px		
Language 控制器语言	Chinese & English & Others/中文 & 英文 & 其他		
AC System 交流制式	1P2W/2P3W/3P4W		
AC Voltage Range 交流电压范围	AC(50~305)V(L-N)		
AC Frequency 交流频率	50/60Hz		
Current and Power Display 电流及功率显示			●
Over Current Warn 过流警告			●
Volt Freq Protection 电压频率保护		●	
Monitor Interface 监控接口	RS485	RS485/ETHERNET	
Programming Interface 编程接口	RS485/USB	RS485/USB/ETHERNET	
Real-time Clock and Event Log 实时时钟及历史记录		●	
Scheduled Start Genset 定时试机		●	
Cycle Start Genset 循环开机		●	
Synchronous Transfer 同步切换			●
Applicable ATS Type 适合开关类型	PC级、CB级、CC级		
Working Voltage 工作电压	DC(8~35)V/AC(90~305)V		
Programmable Input 可编程输入	7		
Programmable Output 可编程输出	7		
Case Dimensions 外形尺寸(mm)	198*154*54 (L*W*H)		
Panel Cutout 开孔尺寸(mm)	186*141		
Operating Temp. 工作温度	(-25~+70)°C		



HAT560N(NB/NBC)  
Dual Power ATS Controller  
双电源自动切换控制器



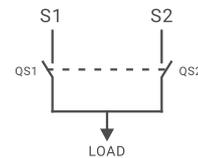
Model/型号	HAT560N	HAT560NB	HAT560NBC
Main Functions 主要功能	With graphic LCD; monitors all AC system; suitable for PC, CB and CC switch. 图形液晶显示模块; 各种交流制式采样; 适用于控制PC级、CB级和CC级开关。		
Display/显示	LCD(132*64)px		
Language 控制器语言	Chinese & English/中文 & 英文		
AC System/交流制式	1P2W/2P3W/3P3W/3P4W	1P2W/2P3W/3P4W	
AC Voltage Range 交流电压范围	AC(30~360)V(L-N)	AC(170~277)V(L-N)	
AC Frequency 交流频率	50/60Hz		
Volt Freq Protection 电压频率保护		●	
Monitor Interface 监控接口	LINK	LINK	LINK/RS485
Programming Interface 编程接口	LINK	LINK	LINK/RS485
RTC(Real Time Clock) 实时时钟		●	
Scheduled Start Genset 定时试机		●	
Cycle Start Genset 循环开机		●	
Main Standby Transfer 主备用切换		●	
Applicable ATS Type 适合开关类型	CC,CB and PC Switch/CC级、CB级和PC级开关		
Working Voltage 工作电压	DC(8~35)V	DC(8~35)V/AC(170~277)V	
Programmable Input 可编程输入	2		
Programmable Output 可编程输出	4	4	3
Case Dimensions 外形尺寸(mm)	139*120*50 (L*W*H)		
Panel Cutout 开孔尺寸(mm)	130*111		
Operating Temp. 工作温度	(-25~+70)°C		



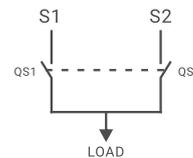
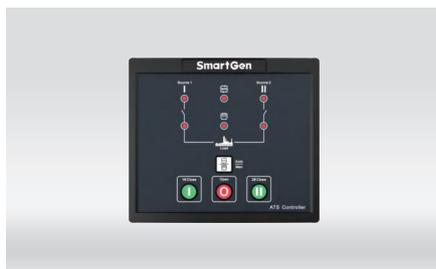
HAT552  
Dual Power ATS Controller  
双电源自动切换控制器



HAT553/553LT  
Dual Power ATS Controller  
双电源自动切换控制器



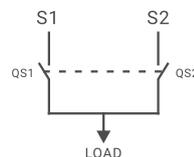
Model/型号	HAT552	HAT553	HAT553LT
Main Functions 主要功能	Suitable for electromagnetic drive two-position ATS switch, one-to-one wiring. 适用于电磁驱动型两段式ATS开关、接线一对一。	Suitable for electromagnetic drive three-position ATS switch, one-to-one wiring. 适用于电磁驱动型三段式ATS开关、接线一对一。	Suitable for manual/auto control of PC class, CB class, CC class dual power transfer switches; working temperature is: (-40~+70)°C. 适用于PC、CB、CC级双电源转换开关的手/自动控制、工作温度：(-40~+70)°C。
Display/显示	LCD(132*64)px		
Language 控制器语言	Chinese & English/中文 & 英文		
AC System/交流制式	1P2W/2P3W/3P4W		
AC Voltage Range 交流电压范围	AC(170~277)V(L-N)		AC(50-277)V(L-N)
AC Frequency 交流频率	50/60Hz		
Volt Freq Protection 电压频率保护	●		
Monitor Interface 监控接口	RS485		RS422
Programming Interface 编程接口	RS485/USB		RS422/USB
RTC(Real Time Clock) 实时时钟	●		
Scheduled Start Genset 定时试机	●		
Main Standby Transfer 主备用切换	●		
Applicable ATS Type 适合开关类型	Two-position (Hankwang/Feiteng) 二段式(韩光/飞腾)	Three-position Feiteng 三段式飞腾型	Two/ Three-position PC/ CB/ CC 二段式/三段式 PC/CB/CC型
Working Voltage 工作电压	AC(170~277)V		DC(9-35)V
Programmable Input 可编程输入	1		
Programmable Output 可编程输出	2		1
Case Dimensions 外形尺寸(mm)	139*120*50(L*W*H)		
Panel Cutout 开孔尺寸(mm)	130*111		
Operating Temp. 工作温度	(-25~+70)°C		(-40~+70)°C



HAT530P/530PC  
Dual Power ATS Controller  
双电源自动切换控制器



Model/型号	HAT530P	HAT530PC
Main Functions 主要功能	The controller is applicable for two-position ATS and three-position ATS with controlling the start of genset. "Four remotes" (remote control, remote measurement, remote communication and remote adjustment) functions can be realized via RS485 communication port. 适用于控制二段式、三段式ATS开关并具有控制发电机组起动的功能。通过RS485口通讯，可实现遥控、遥测、通信、遥调“四通”功能。	
Display/显示	LED	
AC System/交流制式	1P2W/2P3W/3P4W	
AC Voltage Range 交流电压范围	AC(170~277)V(L-N)	
AC Frequency 交流频率	50/60Hz	
Volt Freq Protection 电压频率保护	●	
Monitor Interface 监控接口		RS485
Programming Interface 编程接口	USB	USB/RS485
Main Standby Transfer 主备用切换	●	
Applicable ATS Type 适合开关类型	PC Two-position(Hankwang/Feiteng)/ SOCOME PC three-position PC二段式(韩光/飞腾)/SOCOME型PC三段式	
Working Voltage 工作电压	AC(170~277)V	
Case Dimensions 外形尺寸(mm)	139*120*50(L*W*H)	
Panel Cutout 开孔尺寸(mm)	130*111	
Operating Temp. 工作温度	(-25~+70)°C	



HAT360系列(Series)  
Dual Power ATS Controller  
双电源自动切换控制器



Model/型号	HAT363C
Main Functions 主要功能	It can precisely detect 2# voltages and make accurate judgement on the abnormal voltage. It is suitable for excitation system switch with two breakers, one breaker or none breaker. HAT363 is equipped with RS485. 可精确检测两路电压，对出现的电压异常做出准确判断，适用于励磁型开关，用于两个分断位、一个分断位和无分断位。HAT363C标配RS485。
Display/显示	OLED
Language 控制器语言	Chinese & English/中文 & 英文
AC System/交流制式	1P2W/2P3W/3P4W
AC Voltage Range 交流电压范围	AC(170~277)V(L-N)
AC Frequency 交流频率	50/60Hz
Volt. Freq. Protection 电压频率保护	●
Monitor Interface 监控接口	RS485/LINK
Programming Interface 编程接口	RS485/LINK
Manual Test 手动试机	●
Main Standby Transfer 主备用切换	●
Programmable Input 可编程输入	1
Programmable Output 可编程输出	1
Working Voltage 工作电压	AC(170~277)V
Case Dimensions 外形尺寸(mm)	143*124*49(L*W*H)
Panel Cutout 开孔尺寸(mm)	132*113
Operating Temp. 工作温度	(-25~+70)°C



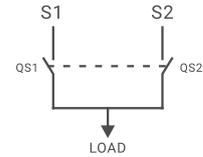
HAT320  
Dual Power ATS Controller  
双电源自动切换控制器



HAT310  
Dual Power ATS Controller  
双电源自动切换控制器



HAT9420LT  
Dual Power ATS Controller  
双电源切换控制器



Model/型号	HAT320	HAT310	HAT9420LT
Main Functions 主要功能	The controller can sample voltage of 1-phase supply from genset, or 3-phase 3-wire supply from mains, which is suitable for PC-class ATS with two contact positions and CC-class ATS. 市电三相四线、发电单相电压采样, 适用PC两段式、CC级开关。	Generator single phase sampling, mains three-phase sampling, suitable for PC two-position switch. 发电单相、市电三相采样, 适用于控制PC级两段式开关。	It can control ATS to transfer according to the S1/S1 power supply status, and auto transfer/auto restore status. 根据S1、S2电源状态及自投自复状态控制ATS切换, 且具备并联转换功能, 不间断供电。
Display/显示	LED		LCD(132*64)
Language/控制器语言			Chinese & English & Others/中文 & 英文 & 其他
AC System/交流制式	1P2W/3P4W		1P2W/2P3W/3P3W/3P4W
AC Voltage Range 交流电压范围	AC(160~280)V(L-N)		AC(50 ~ 360)V(L-N)
AC Frequency/交流频率	50/60Hz		
Current and Power Display 电流及功率显示			●
Over Current Warn 过流警告			●
Volt. Freq. Protection 电压频率保护			●
Monitor Interface 监控接口			RS485-1/RS485-2/ETHERNET
Programming Interface 编程接口			USB/RS485-1/RS485-2/ETHERNET
Real-time Clock and Event Log 实时时钟及历史记录			●
Synchronous Transfer 同步切换			●
Single Start/Master-Slave Start/Simultaneous Start 单机开机/主备开机/同时开机			●
Programmable Input 可编程输入			16
Programmable Output 可编程输出			7
Applicable ATS Type 适合开关类型	PC Two-position/PC二段式		CC,CB and PC Switch CC级、CB级和PC级开关
Working Voltage 工作电压	AC(160~280)V		DC(8 ~ 35)V
Case Dimensions 外形尺寸(mm)	110*77.5*58(L*W*H)		242*186*54(L*W*H)
Panel Cutout 开孔尺寸(mm)	65*65.1		214*160
Operating Temp. 工作温度	(-25~+70)°C		(-40~+70)°C

ATSE CONTROLLER / 智能切换控制器



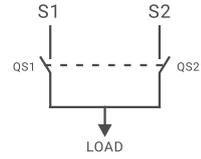
HAT163  
Dual Power ATS Controller  
双电源自动切换控制器



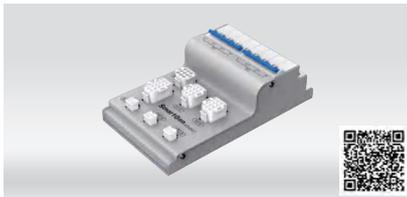
HAT162  
Dual Power ATS Controller  
双电源自动切换控制器



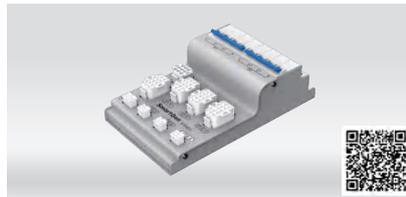
HAT160  
Dual Power ATS Controller  
双电源自动切换控制器



Model/型号	HAT163	HAT162	HAT160
Main Functions 主要功能	Monitors single phase, two phases, three phases, suitable for SOCOMEC PC three-position switch. 单相、两相、三相采样, 适用于SOCOMEPC型PC三段式开关。	Monitors single phase, two phases, three phases, suitable for two-position switch. 单相、两相、三相采样, 适用于二段式开关。	Monitors single phase or three phases, suitable for one motor operation CB switch. 单相或三相采样, 适于控制CB级单电操开关。
Display/显示	LED		
AC System/交流制式	1P2W/2P3W/3P3W(Special order required/需特殊订货)/3P4W		1P2W/3P4W
AC Voltage Range 交流电压范围	AC(170~277)V(L-N)		
AC Frequency 交流频率	50/60Hz		
Monitor Interface 监控接口	LINK		
Programming Interface 编程接口	LINK		
Main Standby Transfer 主备用切换	●		
Applicable ATS Type 适合开关类型	SOCOMEPC three-position SOCOMEPC型三段式	Two-position/二段式	CB One Motor Operation CB级单电操
Working Voltage 工作电压	AC(170~277)V		
Case Dimensions 外形尺寸(mm)	86.9*158*119.5(L*W*H)		
Panel Cutout 开孔尺寸(mm)	73.5*144		
Operating Temp. 工作温度	(-25~+70)°C		



ATA600  
Dual Power Switch Adapter  
双电源开关适配器

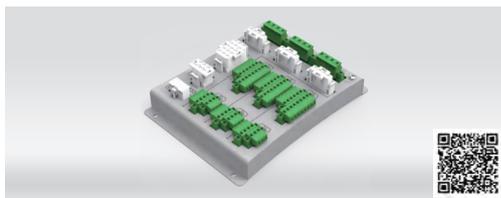


ATA821  
Bus Tie Dual Power Switch Adapter  
母联型双电源开关适配器



ATA821N  
Bus Tie Adaptor  
母联型双电源开关适配器

Model/型号	ATA600	ATA821	ATA821-MN
Main Functions 主要功能	It can connect the controller and the ACB switch secondary line through adapter, one-to-one wiring is simple and fast, and realized the electrical interlock between the two switches. Suitable for HAT600N / P and HAT700 series. 通过适配器连接控制器和ACB开关二次线, 一对一接线简单快捷, 并实现了两开关之间的电气互锁。适用于HAT600N/P和HAT700系列。	It can connect the controller and the ACB switch secondary line through adapter, one-to-one wiring is simple and fast, and realized the electrical interlock between the three switches. Suitable for HAT821 bus tie controller. 通过适配器连接控制器和ACB开关二次线, 一对一接线简单快捷。并实现了三台开关之间的电气互锁。适用于HAT821母联控制器。	Bus-tie dual-power switch adapter, suitable for HAT821 to realize no-voltage release and electric interlock of closing coil functions. It has simple wirings and easy installation. 母联型双电源开关适配器, 适配HAT821可实现失压脱扣和合闸线圈电气互锁功能, 接线简单、方便快捷。
Rated Operating Voltage 额定工作电压	AC400V		
Maximum Operating Current 最大工作电流	10A		
Case Dimensions 外形尺寸(mm)	144.4*252*75.3(L*W*H)		144.4*262*75.3(L*W*H)
Panel Cutout 开孔尺寸(mm)	125*240		125*250
Operating Temp. 工作温度	(-25~+70)°C		



ATA833  
Three Power Switch Adapter  
三路电源开关适配器



TPS31  
Three Power Supply Module  
三电源供电电模块

Model/型号	ATA821N	ATA833	TPS31
Main Functions 主要功能	ATA821N is an adapter for connecting HAT821 Dual Power Bus Tie Controller and intelligent circuit breaker, it saves a lot of field wiring work for users, saves work and time, and is safe and reliable. 适用于HAT821双电源母联自动切换控制器和智能断路器连接的分离式适配器。可为用户节省大量的现场接线工作，省工省时且可靠。	ATA833 is an adapter for connecting HAT833 three power ATS controller and intelligent circuit breaker, which is suitable for 3P4W AC system with 3-way power incomings; it saves a lot of field wiring work for users, saves work and time, and is safe and reliable. 适用于HAT833三路电源自动切换控制器和智能断路器连接的适配器。适用于三路电源进线的三相四线的交流系统；为用户节省了大量的现场接线工作，省工省时且安全可靠。	TPS31 Three Power Supply Module is composed of microprocessor as the core with voltage monitoring function, providing three or two selective AC power output, which can be used for three power supplies or two power supplies. Its working mode can be set as mutual backup and supply as priority. TPS31三电源供电电模块由微处理器为核心构成，可用于三路电源输入，也可用于两路电源输入，具有过压、欠压监测功能，用来提供三选一或二选一的交流电源输出。可设置为互为备用、按优先级供电两种工作模式。
AC Voltage Range 交流电压范围	AC(90~305)V		
Rated Operating Voltage 额定工作电压	AC400V		
AC Frequency 交流频率	50/60Hz		50/60Hz
Maximum Operating Current 最大工作电流		10A	12A
Case Dimensions 外形尺寸(mm)	265*100*89.5(L*W*H)	156.7*210*46(L*W*H)	115.5*102*72.5(L*W*H)
Operating Temp. 工作温度	(-25~+70)°C		(-40~+70)°C

<p>HMP300/HMP300-2 Power Integrated Protection Module 电量综合保护模块</p> <p>HMP300 has LINK communication interface and CAN interface, HMP300-2 has RS485 communication interface. HMP300具有LINK通讯接口和CAN接口，HMP300-2具有RS485通讯接口。</p>	<p>Case Dimensions 外观尺寸(mm): 107.6*89.7*60.7</p>
<p>DIN16A-2 Digital Input Module 开关量输入模块</p>	<p>Case Dimensions 外观尺寸(mm): 107.6*89.7*60.7</p>
<p>HVD300 Voltage Detection Relay 电压检测继电器</p>	<p>Case Dimensions 外观尺寸(mm): 89.7*71.6*60.7</p>
<p>HFT300 Frequency Test Relay 频率检测继电器</p>	<p>Case Dimensions 外观尺寸(mm): 89.7*71.6*60.7</p>

<p>HSM300 Synchronous Module 同步模块</p>	<p>Case Dimensions 外观尺寸(mm): 71.6*89.7*60.7</p>
<p>DOUT16B-2 Digital Output Module 开关量输出模块</p> <p>An expansion module with 16 auxiliary digital output channels. 16路开关量输出模块</p>	<p>Case Dimensions 外观尺寸(mm): 161.6*89.7*60.7</p>
<p>HOC300 Over Current Protection Relay 过流保护继电器</p>	<p>Case Dimensions 外观尺寸(mm): 89.7*71.6*60.7</p>
<p>HPD300 Reverse Power Protection Relay 逆功率保护继电器</p>	<p>Case Dimensions 外观尺寸(mm): 89.7*71.6*60.7</p>

New Energy Products 新能源产品



BMS主控模块  
BMS Master Control Module



BMS从控模块  
BMS Slave Control Module



微网控制器  
Micro-Grid Controller



混合能源管理系统  
Hybrid Energy Management System

Genset Controllers 发电机组控制器



单机自启动发电机组控制器  
Self Starting Genset Controller



AMF发电机组控制器  
AMF Genset Controller



单机自启动发电机组控制器  
Single Auto-start Genset Controller



增强型发电机组控制器  
Enhanced Genset Controller

Marine Engine Controllers 船用机旁控制器



游艇发动机控制器  
Yacht Engine Controller



小型船用发动机控制器  
Small Marine Engine Controller



船用柴油发动机控制器  
Marine Diesel Engine Controller



增强型船用发动机控制器  
Enhanced Marine Diesel Engine Controller



储能变流器  
Power Conversion System



风冷电池模块  
Air-Cooled Battery Module



液冷电池模块  
Liquid-Cooled Battery Module



液冷一体储能柜  
Liquid-cooled ESS Cabinet



分体式发电机组并联控制器  
Split Type Genset Parallel Controller



低温分体式发电机组控制器  
Low-temperature Split Genset Controller



冗余并联发电机组控制器  
Redundant Parallel Genset Controller



发电机组远程监控控制器  
Remote Monitoring Controller



船用发动机远程监控控制器  
Remote Monitoring Controller



功率管理控制器  
Power Management Controller



分体式功率管理控制器  
Split Type Power Management Controller



发动机监控仪  
Engine Monitoring Controller

Construction Machinery Controllers 工程机械控制器



工程机械控制器  
Construction Machinery Engine Controller



发动机CAN监控模块  
Engine CAN Monitoring Module



发动机监控模块  
Engine Monitoring Module



柴驱泵组控制器  
Diesel Drive Pump Unit Controller

Chargers/Heaters 充电器/加热器



数显型蓄电池充电器  
Digital Display Battery Charger



智能型蓄电池充电器  
Smart Battery Charger



蓄电池充电器  
Battery Charger



蓄电池充电箱  
Battery Charger Box

Others 其他



增强型数字电压调节器  
Enhanced Digital Voltage Regulator



标准型数字电压调节器  
Standard Digital Voltage Regulator



标准型数字电压调节器  
Standard Digital Voltage Regulator



基础型数字电压调节器  
Basic Digital Voltage Regulator



柴驱空压机控制器  
Diesel Air Compressor Controller



消防水泵机组控制器  
Diesel Engine Fire Pump Controller



柴驱消防泵控制器(显示模块)  
Diesel Air Fire Pump Controller  
(Display Module)



柴驱消防泵控制器(主控模块)  
Diesel Air Fire Pump Controller  
(Master Control Module)



燃油加热器  
Hydronic Fuel Water Heater



强制循环水加热器  
Forced Circulation Heater



强制循环水加热器  
Forced Circulation Heater



强制循环水加热器  
Forced Circulation Heater



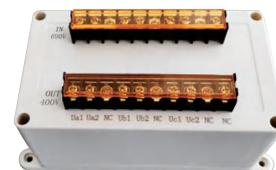
双电源自动转换开关  
Dual Power Automatic  
Transfer Switch



4G云监控通信模块  
4G Cloud Monitoring  
Communication Module



电量综合保护模块  
Power Integrated  
Protection Module



变压器模块  
Transformer Module



SmartGen  
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## SmartGen 众智

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