



SmartGen APP
众智科技APP

SmartGen 众智

让控制更智能



SMARTGEN(ZHENGZHOU) TECHNOLOGY CO., LTD.

www.smartgen.com.cn www.smartgen.cn

CONSTRUCTION MACHINERY PRODUCT CATALOGUE 工程机械产品选型样册

SmartGen 众智

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MAKING CONTROL SMARTER 2023



SmartGen Testing Room / 众智试验室



Prototype Testing Room / 发电机组真机试验室



New Energy Control Testing System
新能源控制试验系统

About Us 关于我们

Founded in 1998, SmartGen (stock code: 301361) is mainly engaged in the research and development, production, sales and service of automatic control system of internal combustion gensets, low-voltage distribution automatic control system and other related automation products. In recent years, we have launched BMS, EMS and other new energy micro-grid control-related products. The company's products are widely used in military industry, mining and oil exploitation, data centers, ships, intelligent buildings, banks, hospitals, telecommunications, infrastructure, construction machinery and other fields.

We have 300+ employees and sell products all over the world. More than 30% employees are dedicated to R&D, striving for exploring new intelligent solutions to improve the overall performance of global industry equipment.

As the China's hidden champion of industry, we invest large amount funds in product's design, intelligent manufacturing and standard laboratory every year since established, to keep the leading position in international market. After years of unremitting efforts, it has obtained more than 400 patents and is also the main drafting unit of the national standard for generator set controllers.

We will continue to innovate and self-transcend as always, dedicating to meet our partners' demands on product diversification and high quality.

Enterprise mission: Making control smarter!

Enterprise spirit: Continuous improvement, teamwork creates value.

众智科技（股票代码：301361）始建于1998年，主要从事内燃发电机组自动控制系统、低压配电自动控制系统等相关自动化产品的研发、生产、销售和服务；近年来陆续推出BMS、EMS等新能源微电网控制相关产品。公司产品广泛应用于军工、矿山石油开采、数据中心、船舶、智能大厦、银行、医院、电信、基建、工程机械等领域。

我们拥有300多名员工，业务范围遍布全球，有超过30%的员工致力于研发工作，负责探索全新的智能化方案来提升全球行业设备的整体性能。

作为中国的行业隐形冠军，自成立以来，每年都会在产品研发、智能制造和标准试验室方面投入大量资金，以保持公司在国际市场中的领先地位。数年来不懈努力，累计取得专利400多项，也是发电机组控制器国家标准的主要起草单位。

我们将一如既往地不断创新与自我超越，为满足合作伙伴对产品多样化和高品质的追求而持续奋斗。

企业使命：让控制更智能！

企业精神：自强不息，众智成城。

SmartGen Testing Room was established in 2010, covering an area of nearly 1,000 square metres. With gradual improvements for years, it has become one of the handful of top-ranking testing bases in the industry.

In order to meet the highest quality standard of various products, SmartGen Testing Room successively purchased sets of advanced test equipment from domestic and foreign well-known enterprises.

Test types mainly include EMC tests, environmental tests, prototype tests, failure analysis test, product safety testing, product function test, reliability test, etc.

众智试验室筹建于2010年，占地面积近千平方米。历时多年的逐渐完善，目前已经成为了行业内屈指可数的一流试验基地。

众智试验室先后从国内外知名企业采购多套高精尖的测试设备，以确保各种产品符合最高品质标准。

主要测试类型包括：电磁兼容（EMC）试验、环境试验、真机试验、失效分析测试、产品安全测试、产品功能测试、可靠性测试等。

Enterprise Honor 企业荣誉



ISO 9001
质量管理体系认证



ISO 14001
环境管理体系认证



ISO 45001
职业健康安全管理体系认证



CCS Certificate
中国船级社认证



Certificate of
Invention Patent
发明专利证书



BV Certificate
BV证书



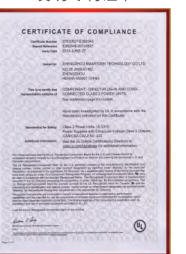
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UL Certificate
UL证书





HEM8500
Engine CAN Monitoring Controller
发动机CAN监控仪



HEM8400
Engine CAN Monitoring Controller
发动机CAN监控仪

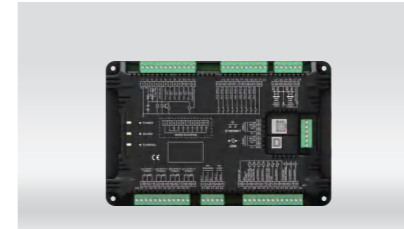


HEM4300
Engine Controller
工程机械控制器

Model/型号	HEM8500	HEM8400	HEM4300
Main Functions 主要功能	Add one 4-20mA analog output, two 4-20mA analog inputs and emergency stop button based on HEM8400. 在HEM8400基础上增加一路4-20mA模拟量输出、两路4-20mA模拟量输入、急停按钮。	With the functions of start/stop control, data monitoring, fault diagnosis and speed regulation of ECU; With high protection level. 具有电喷发动机的起停控制、数据监测、故障诊断、调速等功能;防护等级高。	It is applicable for the automation system of various construction machinery as drilling car, tunnel tractor, hydraulic pump station, mining machinery and so on. It can control ECU engine start/stop, monitoring speed control, maintenance reminder and others. It has a high protection level. 可用于钻车、隧道牵引车、液压泵站、矿山机械等各类工程机械的自动化系统;具有控制电喷发动机的起停、监测、调速、保养提醒等功能;防护等级高。
Display/显示器	4.3-inch LCD/4.3吋LCD		4.3-inch LCD/4.3吋彩屏
Operation Panel 操作面板	Silicon Rubber/硅胶		
Language 控制模块语言	Chinese & English/中文 & 英文		Chinese & English&Other 中文&英文&其他
Digital Input 开关量输入	11		8
Relay Output 继电器输出	7		8-way transistor active output 8路晶体管有源输出
Analog Input 模拟量输入	5	3	6
Analog Output Port 模拟量输出	1		
Speed Adjustment Function 调速功能		●	
RTC & Event Log 实时时钟及历史记录		●	
Maintenance 保养功能		●	
Monitor Interface 监控接口		RS485	
Programming Interface 编程接口	RS485		RS485/USB
CANBUS(J1939)		●	
DC Supply 直流工作电源范围	DC(10~35)V		DC(8-35)V
Case Dimensions 外形尺寸(mm)	247*191*71(L*W*H)		189*131*61(L*W*H)
Panel Cutout 安装尺寸(mm)	214*160		171*119
Operating Temp. 工作温度	(-25~+70)°C		(-25~+70)°C
IP防护等级/IP	IP65		



HEM4100/HEM4000
Engine Controller
发动机控制器



HEM750
Fracturing Truck Control Module
压裂车控制模块



HMU8-750
Fracturing Truck Display Module
压裂车显示模块

Model/型号	HEM4100	HEM4000	HEM750	HMU8-750
Main Functions 主要功能	With the automatic start/stop, data measurement, speed regulation, alarm protection and "Three Remotes" functions of engine. HEM4100 can control a variety of ECU and non-ECU engines, HEM4000 can control all kinds of non-ECU engines. 具有发动机的自动开机停机、数据测量、调速、报警保护及“三通”功能。HEM4100可控制各种电喷或非电喷发动机，HEM4000可控制各种非电喷发动机。		Used for the control of single fracturing truck, realizing the manual start/stop, throttle control, gearbox control and data measurement, alarm protection, "Four Remotes" functions of the fracturing truck. 用于单台压裂车的控制，实现了压裂车的手动开停机、油门控制、变速箱挡位控制以及数据测量、报警保护、四通功能。	Used for display of parameter, alarms and historical records collected by HEM750; the touch screen is used for master control and parameter adjustment. 用于HEM750显示，可显示HEM750采集到的各项参数、报警和历史记录等；通过触屏对主控进行控制以及参数调整。
Display/显示器	4.3-inch LCD/4.3吋LCD			8-inch (800*600) LCD 8吋(800*600)液晶显示器
Operation Panel 操作面板	Silicon Rubber/硅胶			Capacitive touch screen 电容触屏
Language 控制模块语言	Chinese & English/中文 & 英文			Chinese & English 中文 & 英文
Digital Input 开关量输入	6		10	
Relay Output 继电器输出	7		12	
Analog Input 模拟量输入	6		10	
Speed Adjustment Function 调速功能		●		
RTC & Event Log 实时时钟及历史记录		●		
Scheduled Start/Stop 定时开关机	●			
Maintenance 保养功能		●		
Monitor Interface 监控接口	RS485			
Programming Interface 编程接口	USB/RS485			USB
CANBUS(J1939)	●		●	
DC Supply 直流工作电源范围	DC(8~35)V			DC(10~35)V
Case Dimensions 外形尺寸(mm)	135*110*44(L*W*H)			248*158*49(L*W*H) 221*163*51(L*W*H)
Panel Cutout 安装尺寸(mm)	116*90			35mm guide rail or screw installation 35mm导轨或螺钉安装 205*147
Operating Temp. 工作温度	(-25~+70)°C			(-25~+70)°C
IP防护等级/IP	IP65			IP20



ACC7200
Diesel Air Compressor Controller
柴驱空压机控制器



ACC7100A
Diesel Air Compressor Controller
柴驱空压机控制器



ACC4100
Diesel Air Compressor Controller
柴驱空压机控制器

Model/型号	ACC7200	ACC7100A	ACC4100
Main Functions 主要功能	It is suitable for ECU engine driven air compressor units, which has engine start/stop, speed control, data monitoring, maintenance setting and reminder, DPF regeneration functions. Protection class can reach IP65, and it can work in low temperature environments. 适用于电喷发动机驱动的空压机, 具有发动机起停、调速、数据监测、维护保养设定及提醒、DPF再生等功能, 防护等级达到IP65, 可工作于低温环境。	It is suitable for diesel engine driven air compressor, which has CANBUS (J1939) port that can control various ECU or non-ECU diesel-driven air compressors to realize start/stop, data measurement, maintenance, alarm protection, and "three remote" (remote control, remote measurement, remote communication) functions. The controller has speed control function with CANBUS (J1939) port to control various ECU or non-ECU diesel-driven air compressors. 适用于柴油发动机驱动的空压机, 带有CANBUS(SAE J1939)接口, 可控制多种电喷或非电喷柴驱空压机实现空压机的开机停机、数据测量、维护保养、报警保护及“三遥”功能。	It is used for diesel engine driven air compressor to realize start/stop, data measurement, maintenance, alarm protection and "three remote" (remote control, remote measurement, remote communication) functions. The controller has speed control function with CANBUS (J1939) port to control various ECU or non-ECU diesel-driven air compressors. 用于柴油发动机驱动的空压机, 实现空压机的开机停机、数据测量、维护保养、报警保护及“三遥”功能。控制器具有调速功能, 带有CANBUS(SAE J1939)接口, 可控制多种电喷或非电喷柴驱空压机。
Display/显示器	4.3-inch LCD/4.3吋彩屏	4.3-inch LCD/4.3吋LCD	
Operation Panel 操作面板	Silicon Rubber/硅胶		
Language 控制模块语言	Chinese & English & Others/中文 & 英文 & 其他		Chinese & English/中文 & 英文
Digital Input 开关量输入	10	6	
Relay Output 继电器输出	10	9	7
Analog Input 模拟量输入	8		6
Speed Adjustment Function 调速功能		●	
RTC & Event Log 实时时钟及历史记录		●	
Maintenance 保养功能		●	
Monitor Interface 监控接口		RS485	
Programming Interface 编程接口		RS485/USB	
CANBUS(J1939)		●	
DC5V Output DC5V输出		●	
DPF Regenerate DPF再生		●	
DC Supply 直流工作电源范围	DC(8~35)V		
Case Dimensions 外形尺寸(mm)	209*166*49(L*W*H)	209*166*46(L*W*H)	135*110*44(L*W*H)
Panel Cutout 安装尺寸(mm)	186*141		116*90
Operating Temp. 工作温度	(-30~+70)°C	(-40~+70)°C	
IP Protection Level/IP	IP65		



APC715N
Diesel Pump Controller
柴驱泵组控制器



APC615
Pump Unit Controller
水泵机组控制器



FPC915
Fire Pump Controller
消防水泵机组控制器



FPC615
Fire Pump Controller
消防水泵机组控制器

Model/型号	APC715N	APC615	FPC915	FPC615
Main Functions 主要功能	Applicable for high-pressure water pump unit, mud pump unit and drainage pump unit driven by ECU, with double speed, double battery sampling, starting power switch and manual/auto speed regulation functions. 适用于电喷发动机驱动的高压水泵机组、泥浆泵组、排涝泵组等, 具有双转速、双电池采样、启动电源切换、手动调速等功能。	Suitable for diesel engine driven pump unit, the speed regulation can be achieved by relay output and CANBUS. 适用于柴油发动机驱动的水泵机组, 可通过继电器输出、CAN总线实现调速功能。	Suitable for diesel engine driven fire pump unit, with 4.3-inch color LCD and dual starting logic control, battery charging status monitoring, remote communication and other functions. 适用于柴油发动机驱动的消防水泵机组, 采用4.3吋彩色液晶显示屏, 具有双起启动逻辑控制、蓄电池充电状态监测、远程通讯等功能。	Applicable for the fire pump unit control. With manual/auto mode switching function, which can monitor the voltage condition of two groups of battery and collect the sensor signal of unit, digital switching signal to monitor the operation of the unit. With the fault alarm function. 适用于控制消防水泵机组。具有手动模式切换功能, 可以监控两组电池的电压状况同时采集机组传感器信号、数字开关量信号来监测机组的运行情况, 具有故障报警功能。
Display/显示器	4.3-inch LCD (240*128)4.3吋液晶显示器	4.3-inch LCD/4.3吋LCD	4.3-inch TFT-LCD (480*272)4.3吋液晶显示器	4.3-inch LCD/4.3吋LCD
Operation Panel 操作面板	Silicon Rubber/硅胶			
Language 控制模块语言	Chinese & English & Others/中文 & 英文 & 其他			
Digital Input 开关量输入	10	6	18	3
Relay Output 继电器输出	10	8	12	8
Analog Input 模拟量输入	10	6	7	3
RTC & Event Log 实时时钟及历史记录			●	
Scheduled Start/Stop 定时开关机		●		
Monitor Interface 监控接口		RS485		LINK
Programming Interface 编程接口	USB/RS485	LINK/RS485	USB/RS485	LINK
CANBUS		●		
DC Supply 直流工作电源范围	DC(8~35)V			
Case Dimensions 外形尺寸(mm)	242*186*49(L*W*H)	197*152*47(L*W*H)	237*172*45(L*W*H)	197*152*47(L*W*H)
Panel Cutout 安装尺寸(mm)	214*160	186*141	214*160	186*141
Operating Temp. 工作温度	(-25~+70)°C			
IP Protection Level/IP	IP65		IP55	IP65



ALC708
Lighting Tower Controller
灯塔机组控制器



ALC404
Lighting Tower Controller
灯塔机组控制器



EP4300
Engine Controller
发动机控制器

Model/型号	ALC708	ALC404	EP4300
Main Functions 主要功能	Suitable for AC/DC lighting tower unit control, with a variety of start/stop mode selections, 8-switch control function; with RS485 and USB interfaces. 适用于交、直流灯塔机组控制, 具有多种开停机模式选择、8个灯开关控制等功能; 具有RS485及USB接口。	Suitable for AC/DC lighting tower unit control, with a variety of start/stop mode selections, light fault monitoring, mains power supply, low consumption, light switch control functions; CANBUS and USB interface. 适用于交、直流灯塔机组控制, 具有多种开停机模式选择、灯故障监测、市电供电有效、低功耗、灯开关控制等功能; CANBUS、USB接口。	Used for the control and data display of the engine, especially the electronically controlled engine (CAN instrument) to realize the engine start/stop, speed control, data measurement, alarm display functions. The controller adopts the color LCD, Chinese and English are optional, simple operation and reliable running. 用于发动机尤其是电控发动机的控制和数据显示 (CAN仪表), 实现发动机的开机/停机、转速控制、数据测量、报警显示等功能。控制器采用彩色液晶显示器, 可显示中文、英文, 操作简单, 运行可靠。
Display/显示器	LCD(132*64)		4.3-inch LCD/4.3吋彩屏
Operation Panel 操作面板	Silicon Rubber/硅胶		
Language 控制模块语言	Chinese & English/中文 & 英文		
Digital Input 开关量输入	12	5	3
Relay Output 继电器输出	14	8	3
Analog Input 模拟量输入	4	3	3
Speed Adjustment Function 调速功能			●
RTC & Event Log 实时时钟及历史记录		●	
Scheduled Start/Stop 定时开关机		●	
Lights Number 灯数量	8	4	
Monitor Interface 监控接口	RS485		RS485
Programming Interface 编程接口		USB	USB/RS485
CANBUS(J1939)			●
DC Supply 直流工作电源范围	DC(8~35)V		
Case Dimensions 外形尺寸(mm)	197*152*47(L*W*H)	135*110*44(L*W*H)	127*115*86.2(L*W*H)
Panel Cutout 安装尺寸(mm)	186*141	116*90	115*103
Operating Temp. 工作温度	(-25~+70)°C		
IP Protection Level/IP	IP55		IP65

HPS/FPC915-S01
Diesel Fire Pump Control Panel
柴驱消防水泵机组控制屏

The control panel is applicable for the National II and National III diesel driven fire pump. It can realize the functions of local start/stop, parameter display, alarm protection, dual battery starting, voltage and charging current monitoring of the two groups of battery. The control panel has remote monitoring interface in order to do remote control with PLC by RS485. The IP level is IP44.

控制屏适用于国二和国三柴驱消防水泵。可实现机旁开机、停机、参数显示、报警保护、双电池启动、监测两组电池的电压和充电电流等功能。控制屏带有远程监控接口, 可与PLC通过RS485进行远程监控。防护等级: IP44。



ECPC4300
Diesel Engine Control Panel
柴油机控制屏

The control panel is suitable for the construction machinery equipment powered by ECU diesel unit, which can realize the start/stop, speed regulation, data measurement, alarm protection and other functions of diesel engine. The remote monitoring interface can be used with remote controller or HEM4300-RM together to realize the remote monitoring function of the engine. The IP level is IP45.

控制屏适用于电喷柴油机为动力的工程机械设备。可实现柴油发动机的开机、停机、转速调节、数据测量、报警保护等功能。控制屏具有远程监控接口, 可与遥控器或HEM4300-RM配合, 实现发动机的远程监控功能。防护等级IP45。



ECPC4100
Diesel Engine Control Panel
柴油机控制屏

The control panel is suitable for the sewage pump, hydraulic pump station, crusher and other construction machinery equipment driven by diesel unit.

控制屏适用于柴油机为动力的排污泵, 液压泵站, 破碎机工程机械等。



CCPC7100A-ZZ
Diesel Air Compressor Control Panel
柴驱空压机组控制屏

The control panel is suitable for the diesel air compressor with National II, National III and above emission standards. It can realize the functions of start/stop, loading/unloading, data measurement, alarm protection. The remote monitoring interface can be used with remote controller or ACC7100A-RM or cloud monitoring to realize the remote monitoring, start/stop, loading/unloading functions of air compressor. The IP level is IP45.

控制屏适用于国二、国三及以上排放标准的柴驱空压机。可实现开机、停机、加卸载、数据测量、报警保护等功能。控制屏具有远程监控接口, 可与遥控器或ACC7100A-RM或云猫配合, 实现空压机的远程监控、开停机、加卸载等功能。防具等级IP45。



SG72A
Communication Module
通信模块

- ▶ USB to LINK
- ▶ USB to RS232
- ▶ USB to RS485



HRC200
Industrial Remote Control
工业遥控器

Used with ACC7100A or HEM4100 controller to realize the remote start/stop, loading/unloading, emergency stop functions.

配合ACC7100A, HEM4100等控制器使用, 可实现远程开机、停机、加载、卸载、急停等功能。



BACM2406
Battery Charger
蓄电池充电器

BACMXX06 series charger is an intelligent, multi-functional battery charger, especially designed for the charging characteristics of lead-acid battery used for starting the engine unit.

BACMXX06系列充电器是一款智能型、多功能蓄电池充电器, 专门针对发动机组起动的铅酸蓄电池的充电特性而设计。

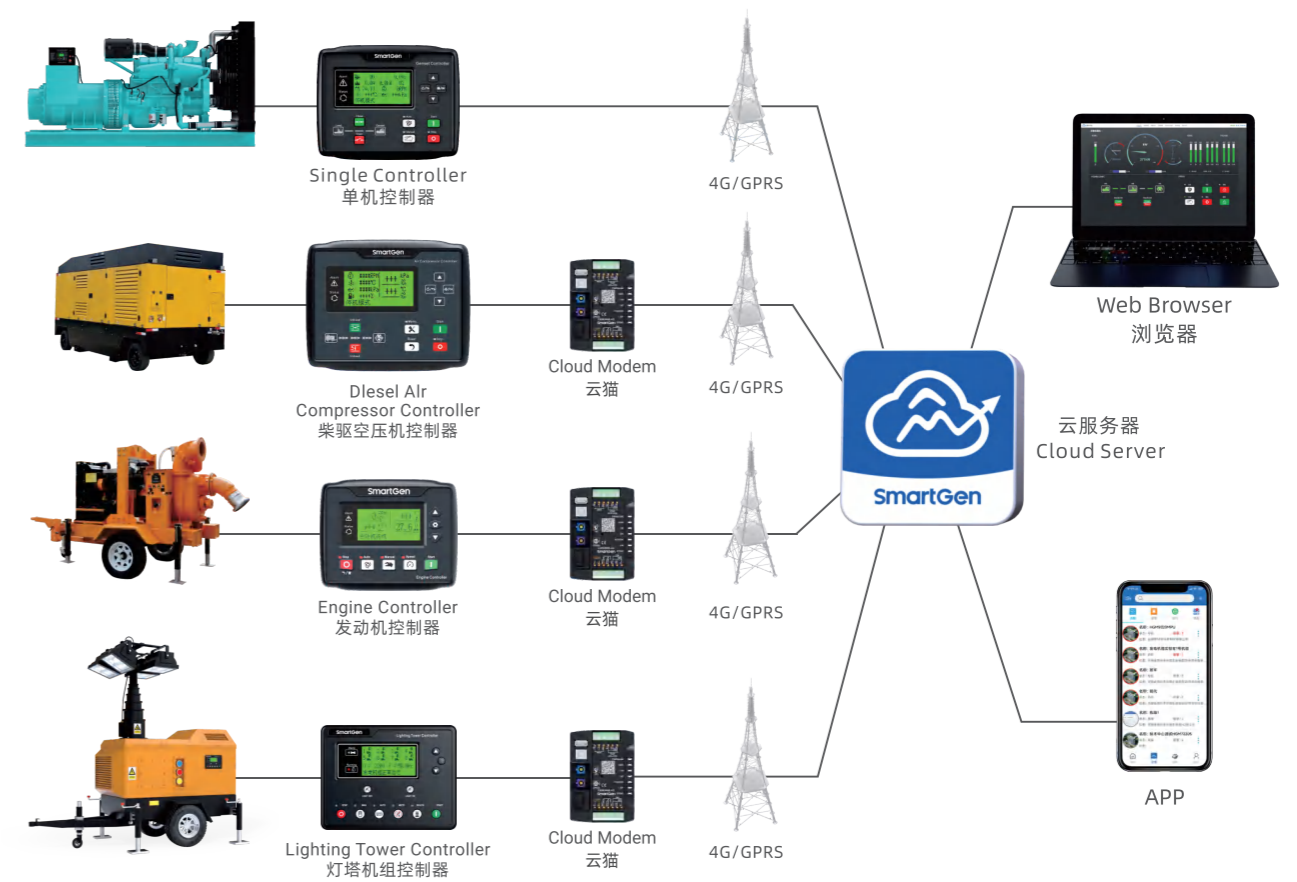


HTL04A
Engine Oil Heater
机油加热器

Suitable for all kinds of engines with oil volume (50~110)L.

适用于机油容积 (50~110) L 的各种发动机。





SmartGen Cloud Plus is a high-concurrency, low-latency, high-customization on-line monitoring platform of genset. Users can add, modify, and delete genset information independently, and other user's genset can be checked and monitored by subscribing and unsubscribing functions. SmartGen Cloud Plus adopts Websocket to actively push the data of cloud monitoring module to shorten the real-time data display time of client and reduce the network traffic of users. SmartGen Cloud Plus provides web version and mobile Android version, IOS version, PC version three clients for users to choose. With event log, fault push, alarm analysis, positioning, remote lock/unlock, flow check, cloud modem remote upgrade, electric fence, running track functions.

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