

电仪产品解决方案 Electrical Switchgear and Control System Products



CORE TECHNOLOGICAL CAPACITY



经过多年发展,已具备海上油气田中控系统、EMS系统、大型橇装设备控制系统、配电盘柜(35KV及以下) 等产品设计、集成、测试及售后服务能力。截至目前,已为公司几十个项目累计提供5,000余套合格电控产品。

After several years of development, we have fully possessed the product design, integration, testing and after-sales service capabilities of Central Control System, Power Management System(EMS), ComPressor Control System, High and Medium Voltage Switchgear(HVS/MVS), Low Voltage and Small Power Distribution Board, and so on. Up to now, more than 5,000 sets of electric instrument products have been provided for several offshore oil and gas field projects.











2019-2023

CNOOC 's first

Central control

system and

power station

management

integration

products

E-house The first set of high current solid insulated

switchgear in

China(12kv,

2500A/4000A) 12kv High current dry air insulated switchgear(12kv , 3150Å)

2015-2016

- MV/LV switchgear
- Power distribution
- PLC control panel
- Junction box
- Power distribution panel and Juntion box into the scope of EPCI
- The first set of CCS, MV/LV switchgear and PMS system was successfully delivered.
- The first set of 12kV removable solid insulated
- China 40.5kV solid insulated
- switchgear

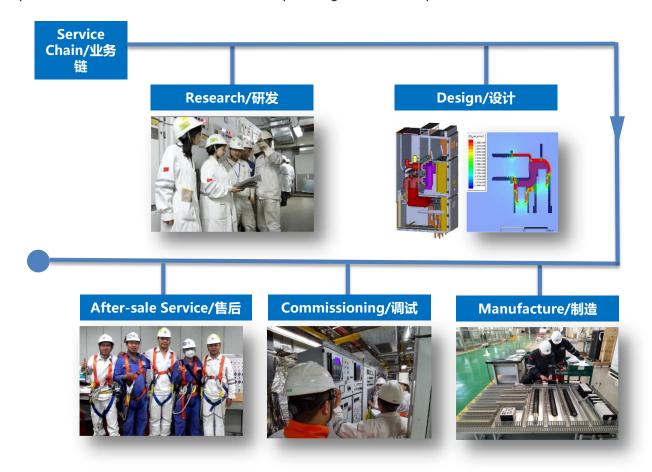
switchgear in

CORE TECHNOLOGICAL CAPACITY



擎海智控系列主要针对电仪产品,包含中高压配电产品、低压配电产品、控制系统产品、智能化系统产品四大类,通过多年的积累,电气产品参数实现海油项目100%覆盖,具有一支技术过硬的团队,可根据客户需求进行研发、定制,最大程度缩短工期,满足项目需求。同时售后团队及时跟踪产品运行情况,及时解决现场问题,形成产品闭环管理。

The Qinghai series including medium and high voltage power distribution products, low voltage power distribution products, control system products, and intelligent system products. Through years of accumulation, the electrical product parameters have achieved 100% coverage of the CNOOC project. A team with excellent technology can develop and customize according to customer needs, shorten the construction period to the greatest extent, and meet the project requirements. At the same time, the after-sales team tracks the operation of the product in time, solves the on-site problems in time, and forms a closed-loop management of the product.







概述 Overview

中高压盘是海洋油气平台关键的配电设施,用于海上油气平台6.3kV~35kV中高压配电。目前,公司已具备中高压开关柜设计、制造、测试、调试及售后服务能力,突破了空气大电流固体绝缘开关柜及环保气体绝缘开关柜技术,实现了参数全覆盖,可广泛用于海洋油气田、陆地终端、FPSO上部模块、国家电网、工厂配电、高压输电、铁路系统、城市配电、风力发电等各种场合,相关产品已在文昌9-2/9-3/10-3、南堡35-2、宁波19-6、乌石17-2/23-5、惠州26-6等项目中得到成功应用。

HV/MV swithchgear is the key power distribution facility for offshore oil and gas platforms, which is used for $6.3 kV \sim 35 kV$ medium and high voltage power distribution. At present, we has the capability of designing, manufacturing, testing, commissioning and after-sales service of medium and high voltage switchgear, breaking through the technology of air high current solid insulated switchgear and environmentally friendly gas insulated switchgear, realizing the full coverage of parameters. It can be widely used in offshore oil and gas fields, land terminals, FPSO upper modules, national power grids, factory power distribution, high voltage transmission, railway systems, urban power distribution, wind power generation and so on. Relevant products have been successfully applied in WC9-2/9-3/10-3, NB35-2, NB19-6, WS 17-2/23-5, HZ 26-6 and other projects.



基本参数 Basic Parameter	环保气体绝缘开关柜 Dry air-filled insulated	固体绝缘开关柜 Solid-insulated	空气绝缘开关柜 Air-insulated
额定电压/Rated Voltage	40.5	12~40.5	12
额定电流/Rated Current	630~1250A	630~4000A	630~4000A
额定短路开断电流/ Short-circuit breaking current	25/31.5	25/31.5/40/50	25/31.5/40/50
一次防护等级/ Sealed electrified body	IP67	IP67	IP20
柜体防护等级/Enclosure	IP42	IP42	IP32
典型尺寸/Size (1250A, W*D*H,mm)	40.5kV:760*1400*23 00	12kV:480*1200*2250; 40.5kV:600*1300*2300	800*1500*2350
重量/Weight (kg)	40.5kV:1200	12kV:680 40.5kV:780	800

时间/YEAR	项目名称/NAME	产品类型	数量/SET
2017年	文昌项目/Wenchang	Solid-insulated	2
2017年	文昌项目/Wenchang	Air-insulated	21
2021年	南堡项目/Nanbao	Solid-insulated	2
2022年	宁波项目/Ningbo	Solid-insulated	1
2022年	宁波项目/Ningbo	Dry air-filled insulated	1
2023年	惠州项目/Huizhou	Air-insulated	20
2023年	乌石项目/Wushi	Solid-insulated	8
2023年	乌干达项目/Uganda	Air-insulated	82







<u>环保型气体绝缘中高压开关柜(35kV)</u> Dry air-filled insulated switchgear(35kV)



概述 Overview

与海上平台常用六氟化硫充气柜相比,该设备采用低压干燥空气/氮气作为绝缘介质,单台可减少碳排放100吨左右,尺寸与六氟化硫充气柜相差不大,可有效替代现有开关柜。

It has the functions of control, protection and detection. Compared with the commonly used SF_6 -filled insulation switchgear on offshore platforms, the equipment uses low-pressure dry air / N_2 as the insulation medium, and 1 SET can reduce carbon emissions by about 100 tons. The size is not much different from the SF6-filled insulation, which can effectively replace the existing HV switchgear.





基本参数 Basic Parameter

基本参数 Basic Parameter	EVI-40. 5/T1250
额定电压/Rated Voltage	40. 5
额定电流/Rated Current	$630^{\sim}1250\mathrm{A}$
额定短时耐受电流/Rated short-time withstand current (4s)	25/31.5
额定短路开断电流/Short-circuit breaking current	25/31.5
额定短路关合电流/Rated short-time making current	63/80
额定峰值耐受电流/Rated peak withstand current	63/80
额定短时工频耐受电压/1min power frequency withstand voltage	相间/Phase to phase: 95kV 相对地/Phase to earth: 95kV 断口/Across contacts: 118kV
额定雷电冲击耐受电压Lightning impulse withstand voltage	相间/Phase to phase: 118kV 相对地/Phase to earth: 118kV 断口/Across contacts: 185kV
充气压力/Rated pressure(20°C gauge)	0.03Mpa
防护等级/Degree of Protection	一次/Sealed electrified body: IP67 柜体/Enclosure: IP42
机械寿命/Mechanical endurance	断路器/VCB: 10000次 隔离开关/Disconnector: 3000次
尺寸/Size(W*D*H,mm)	760*1400*2300
重量/Weight (kg)	1200

BUSINESS PARAMETERS 商务参数

供货周期 Supply Cycle 6~8 months

产品服务类型 Product Type EPCI&After Sales Service



固体绝缘中高压开关柜 (12~35KV) Solid-insulated switchgear (12~35kV)



概述 Overview









该设备将高压带电体固封并采取局部屏蔽技术,具有体积小、重量轻、绝缘、安全及防护等级高等优点,相比传统空气绝缘开关柜,占地面积最大可缩小70%以上,重量可减轻80%,可广泛用于海洋油气田、陆地终端、FPSO上部模块、国家电网、工厂配电、高压输电、铁路系统、城市配电、风力发电等各种场合,可有效替代现有中高压开关柜。

The equipment solid seals the high-voltage charged body and adopts local shielding technology. It has the advantages of small size, light weight, insulation, safety and high protection levelCompared with the traditional switchgear, the area can be reduced by more than 70% and the weight can be reduced by 80%. It can be widely used in offshore oil and gas fields, land terminals, FPSO upper modules, national power grids, factory power distribution, high voltage transmission, railway systems, urban power distribution, wind power generation and other occasions and can effectively replace the existing switchgear.

基本参数 Basic Parameter

基本参数 Basic Parameter	SVIN-40.5/T1250	SVP - 12 / T
额定电压/Rated Voltage	40. 5kA	12kA
额定电流/Rated Current	630~1250A	630 [~] 4000A
额定短时耐受电流/Rated short-time withstand current (4s)	25/31.5kA	25/31.5/40/50
额定短路开断电流/Short-circuit breaking current	25/31.5kA	25/31.5/40/50
额定短路关合电流/Rated short-time making current	63/80	63/80/100/125
额定峰值耐受电流/Rated peak withstand current	63/80	63/80/100/125
额定短时工频耐受电压/1min power frequency withstand voltage	相间/Phase to phase: 95kV 相对地/Phase to earth: 95kV 断口/Across contacts: 118kV	相间/Phase to phase: 42kV 相对地/Phase to earth: 42kV 断口/Across contacts: 48kV
额定雷电冲击耐受电压Lightning impulse withstand voltage	相间/Phase to phase: 118kV 相对地/Phase to earth: 118kV 断口/Across contacts: 185kV	相间/Phase to phase: 75kV 相对地/Phase to earth: 75kV 断口/Across contacts: 85kV
防护等级/Degree of Protection	一次/Sealed electrified body: IP67 柜体/Enclosure: IP42	一次/Sealed electrified body: IP67 柜体/Enclosure: IP42
机械寿命/Mechanical endurance	断路器/VCB:10000次 隔离开关/Disconnector:3000次	断路器/VCB:20000次 隔离开关/Disconnector:3000次
尺寸/Size(W*D*H,mm)	600*1300*2300	1250A: 480*1200*2250 1600~2500A: 750*1260*2250 3150A~4000A: 900*1320*2250
重量/Weight (kg)	780	680~1000

BUSINESS PARAMETERS

商务参数

供货周期 Supply Cycle 4~6 months

产品服务类型 Product Type EPCI&After Sales Service



空气绝缘中压开关柜 (12KV) Air-insulated switchgear (12kV)



概述 Overview

KYN28A/COOEC产品 用于3.6~12kV三相交流50Hz电力系统,可配微机综合保护及智能化监测装置,实现遥测、遥控、遥信和无人值守,可广泛用于海洋油气田、陆地终端、FPSO上部模块、国家电网、工厂配电、高压输电、铁路系统、城市配电、风力发电等各种场合。

KYN28A/COOEC tis used in 3.6~12 kV three-phase AC 50 Hz power system. It can be equipped with microcomputer comprehensive protection and intelligent monitoring device to realize telemetry, remote control, remote communication and unattended operation. It can be widely used in offshore oil and gas fields, land terminals, FPSO upper modules, national power grids, factory power distribution, high voltage transmission, railway systems, urban power distribution, wind power generation and other occasions and can effectively replace the existing switchgear.

基本参数 Basic Parameter

产品型号/Model	KYN28A/COOEC - 12 / T
额定电压/Rated Voltage	12kA
额定电流/Rated Current	630~4000A
额定短时耐受电流/Rated short-time withstand current(4s)	25/31.5/40/50
额定短路开断电流/Short-circuit breaking current	25/31.5/40/50
额定短路关合电流/Rated short-time making current	63/80/100/125
额定峰值耐受电流/Rated peak withstand current	63/80/100/125
额定短时工频耐受电压/1min power frequency withstand voltage	相间/Phase to phase:42kV 相对地/Phase to earth:42kV 断口/Across contacts:48kV
额定雷电冲击耐受电压Lightning impulse withstand voltage	相间/Phase to phase: 75kV 相对地/Phase to earth: 75kV 断口/Across contacts: 85kV
防护等级/Degree of Protection	一次/Sealed electrified body: IP20 柜体/Enclosure: IP32
机械寿命/Mechanical endurance	断路器/VCB: 20000次
尺寸/Size(W*D*H,mm)	1250A: 800*1500*2350 1600~4000A: 1000*1500*2350 VCS: 650*1500*2350
重量/Weight (kg)	750~1200

BUSINESS PARAMETERS 商务参数

供货周期 Supply Cycle 4~6 months

产品服务类型 Product Type EPCI&After Sales Service



低压开关柜 (400V) LV switchgear (400V)

COOEC-MNS (400V, 6300A,100KA)

概述 Overview

低压开关柜包括组块正常/应急低压开关柜和生活楼正常/应急低压开关柜。组块低压开关柜一般为柜后维护,主要采用PLC逻辑控制满足低压配电的三选二、黑启动和并车等不同工况需求。生活楼低压开关柜一般为靠墙安装柜前维护,为厨房、洗衣房等生活设施提供电能来源。

Low-voltage switchgear includes platform normal/emergency low-voltage switchgear and living quarters normal/emergency low-voltage switchgear. Platform low-voltage switchgear is generally maintained at the back of the cabinet and mainly uses PLC logic control to meet the needs of different working conditions such as two-out-of-three selection, black start, and parallel connection in low-voltage power distribution. The low-voltage switchgear in living quarters is generally installed against the wall and maintained at the front of the cabinet, providing a source of electrical energy for living facilities such as kitchens and laundry rooms.



产品型号/Model	基本参数 Basic Parameter	
COOEC-MNS	400V,400-4000A, 80KA, IP43	
	400V,4000-6300A, 100KA, IP43	



低压开关柜 (400V) LV switchgear (400V)

技术规格 Specification

额定工作电压 Rated working voltage 400V

额定绝缘电压 Rated insulation voltage 690V

额定最大电流 Rated maximum current 6300A

额定短时耐受电流(Icw/1s) Rated short-term withstand current (Icw/1s) 100kA

设计寿命 Design Life >25 years

商务参数 Application Scope

供货周期 Supply Cycle 4~6 months

产品服务类型 Product Type EPCI&After Sales Service

核心元气品牌 Component Brands ABB or Schneider

工程业绩 Project performance

时间/YEAR	项目名称/NAME	数量/SET
2020年	临港项目/Lingang	50
2021年	流花项目/liuhua	91
2023年	陵水项目/Lingshui	40
2023年	恩平项目/Enping	228
2023年	乌石项目/Wushi	85
2023年	陆丰项目/Lufeng	68
2023年	埕北项目/Chengbei	14
2023年	惠州项目/Huizhou	68



<u>小功率配电盘 (230V)</u> Small power distribution panel (230V)





概述 Overview

小功率配电盘包括照明小功率配电盘和电伴热小功率配电盘。照明小功率配电盘为照明灯提供电能来源。在管 线和容器的表面配有电伴热带用于各种管线、阀门和容器的防冻和保温,以及维持仪表管线的工艺温度,数以百计 的电伴热回路的配电盘称为电伴热小功率配电盘。

Small power distribution panels include lighting small power distribution panels and electric heating small power distribution panels. The low power distribution panel for lighting provides a source of electrical energy for the lighting fixtures. Electric heat tracing strips are installed on the surface of pipelines and containers to prevent freezing and insulation of various pipelines, valves, and containers, as well as to maintain the process temperature of instrument pipelines. Hundreds of electric heat tracing circuit distribution boards are called electric heat tracing low-power distribution boards.

基本参数 Basic Parameter	照明小功率盘 Small power distribution panel	电伴热小功率盘 HEAT TRACING PANEL	小功率分电箱 Small power distribution box
类型 Type	PZ2.0-I	PZ2.0-I	PDBC-I
IP等级 IP level	最高 IP33	最高 IP33	最高 IP54
尺寸 (mm) Size	H:2200 W:600/800/1000/1200/1600 D:600/800/1000/1200	H:2200 W:600/800/1000/1200/1600 D:600/800/1000/1200	H: 800/1200 W: 400/600/800 D: 260mm/300
设计寿命 Design Life	> 25 years	> 25 years	> 25 years
证书 certificate	230V, 100-1600A, 25KA	230V, 100-1600A, 25KA	230V, 250-32A, 25KA 400V, 250-63A, 30KA



<u>小功率配电盘 (230V)</u> Small power distribution panel (230V)

技术规格 Specification

额定工作电压 Rated working voltage 230V

额定绝缘电压 Rated insulation voltage 440V

辅助电流绝缘电压 Auxiliary current insulation voltage 500V

额定冲击耐受电压 Rated impulse withstand voltage 8000V

额定最大电流 Rated maximum current 1600A

额定短时耐受电流(Icw/1s) Rated short-term withstand current (Icw/1s) 30kA

额定峰值耐受电流(Ipk) Rated peak withstand current (Ipk) 63kA

设计寿命 Design Life >25 years

商务参数 Application Scope

供货周期 Supply Cycle 3~6 months

产品服务类型 Product Type EPCI&After Sales Service

工程业绩 Project performance

时间/YEAR	项目名称/NAME	数量/SET
2022年	蓬莱项目/Penglai	42
2022年	绥中项目/Suizhong	88
2023年	恩平项目/Enping	20
2023年	渤中项目/Bozhong	55
2023年	乌石项目/Wushi	47
2023年	陆丰项目/Lufeng	20
2023年	惠州项目/huizhou	19
2024年	锦州项目/Jinzhou	56



中控系统/CCS



	PCS系统	ESD系统	FGS系统
盘柜尺寸 Dimension	800mm x 800mmX2000mm	800mm x 800mmX2000mm	800mm x 800mmX2000mm
响应时间 Response Time	<500ms	<300ms	<300ms
冗余性 Redundancy	Controller, power, network, data bus	Controller, power, network, data bus I/O	Controller, power, network, data bus I/O
安全完整性 Security integrity level		SIL3	SIL3
通信速度 Leg Number	>= 100Mbps	>= 100Mbps	>= 100Mbps
系统类型 System Type	DCS	SIS	SIS



中控系统/CCS

技术规格 Specification

系统负载率System load rate<50%</th>备用I/O比例Spare I/O ratio>=30%安全完整性等级Safety Integrity LevelSIL3 (SIS)平均无故障时间MTBF>100万小时

SOE记录间隔 SOE Record Interval 5ms

商务参数 Application Scope

产品服务类型 Product Type EPCI

供货周期 Supply Cycle 24~36 months

增值服务 Value-addedServices

定制化功能 Customized Features

健康管理功能 Health Management Functions

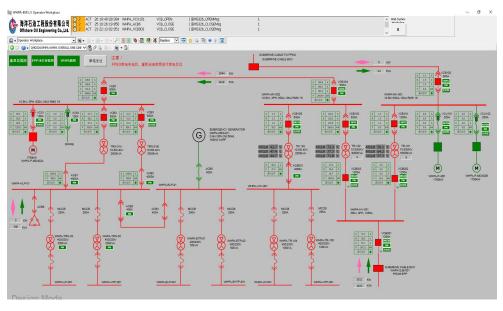
维保服务 Maintenance 改造 Transform

工程业绩 Project performance

时间/YEAR	项目名称/NAME	数量/SET
2017年	文昌项目/Wenchang	4
2021年	秦皇岛项目/Qinhuangdao	10
2022年	陆丰项目/Lufeng	1
2022年	渤中项目/Bozhong	1
2022年	唐山项目/Tangshan	4
2023年	锦州项目/Jinzhou	4
2024年	崖城项目/Yacheng	1
2024年	文昌项目/Wenchang	1
2024年	涠洲项目/Weizhou	1



电能管理系统/EMS





概述 Overview

电能管理系统(EMS)是一个面向发、输、变、配、用电各个环节的综合自动化控制系统。其功能包括发电机组管控、电网有功无功潮流及电压控制、关键设备的监视和远程操控、电网在线安稳控制、电网运行热备用余量管理及关键负载的综合管控等功能。目前,公司具备对孤岛电站平台以及多平台电力组网后的安稳策略制定能力,掌握负荷管理、电力调度、大负载抑制、低压设备管理、故障脱扣管理等关键技术。产品可面向井口平台、动力平台、中心平台以及陆地处理终端等多种领域。目前该产品系列已在渤中作业区、恩平作业区、陵水作业区、惠州作业区等多个平台得到广泛应用。

Energy management system (EMS) is a comprehensive automatic control system for power generation, transmission, transformation, distribution and power consumption. Its functions include generator set management and control, power grid active and reactive power flow and voltage control, key equipment monitoring and remote control, power grid online stability control, power grid operation heat reserve margin management and critical load comprehensive control and other functions. At present, the company has the ability to formulate stability strategies for island power station platforms and multi-platform power networks, and master key technologies such as load management, power dispatching, large load suppression, low-voltage equipment management, and fault trip management. The products are available for a variety of fields such as wellhead platforms, power platforms, central platforms and land treatment terminals. At present, the product series has been widely used in Bozhong working area, Enping working area, Lingshui working area, Huizhou working area and other platforms.

	EMS 1.0	EMS 2.0	EMS 3.0
适用场所 Applicable to the platform	无发电机设施 No generator	有发电机设施 Including generator	中心站设施 (有发电机且布置服务器) Including generator and server
主控制柜数量 main control cabinet Number	1-2	2	2+1
单面柜体积 Single side cabinet volume	800*800*2100mm	800*800*2100mm	800*800*2100mm
远程I/O站数 <u>量</u> remote I/O station Number	2-3个	4-5个	5-6个
系统点数 system Number	500-700点	700-900	900-1000
HMI幅数 HMI Number	>30	>50	>100



电能管理系统/EMS

技术规格 Specification

CPU负载率 CPU load rate 正常状态下小于30%,满负荷工况下小于50%

负载脱扣时间 Load trip time ≤120ms

冗余配置 Redundant configuration 电源冗余、CPU冗余、网络冗余

通讯接口 Communication interface 支持Modbus RTU、 Modbus TCPIP、 Profibus等

工控网络安全 Industrial control network securit 符合等保2.0 二级网络安全标准

设计寿命 Design Life >30 years

应用场景 Application scenario

电能管理系统 (EMS) 系列产品可应用于非电站平台、电站平台、中心站平台等各种平台设施上。主要具有以下功能:

✓ 单线图查看 Single line chart view

✓ 断路器控制 Circuit breaker control

✓ 变压器调节 Transformer regulation

✓ 负荷管理 Load management

✓ 优先级设置 Priority setting

✓ 调度管理 Scheduling management

✓ 大负载抑制 Heavy load suppression

✓ 低压设备管理 Low voltage equipment management

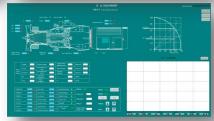
✓ PM表数据显示 PM table data display

✓ 趋势图表 Trend chart ✓ 报警一览表 Alarm list

✓ 报表管理 Report management











电能管理系统/EMS

商务参数 Application Scope

产品服务类型 Product Type EPCI 供货周期 Supply Cycle 4~5 months

可付费项服务 Paid Services

电力组网安稳策略和控制策略制定 老平台EMS系统改造升级 Power network security strategy and control strategy development Digital services

工程业绩 Project performance

时间/YEAR	项目名称/NAME	数量/SET
2017年	文昌项目/Wenchang	1
2021年	秦皇岛项目/Qinhuangdao	6
2022年	陆丰项目/Lufeng	1
2022年	渤中项目/Bozhong	1
2022年	恩平项目/Enping	1
2023年	惠州项目/huizhou	1
2024年	崖城项目/Yacheng	1
2024年	文昌项目/Wenchang	2



综合自动化管理系统/ICSS



概述 Overview

结合海上平台及岸电接入后海上油气田电网的技术需求,应用综合保护测控装置、稳控装置、AGC/AVC技术,实现油田群电能管理对发电机组、负载、变压器、海缆等设备的一体化管控。综合自动化管理系统通过国产化监控组态平台实现海洋平台设备的运行监视、操作与控制、智能应用等。

The comprehensive automation management system combines the technical requirements of offshore platforms and shore power integration into the offshore oil and gas field power grid, and applies comprehensive protection and measurement devices, stability control devices, AGC/AVC technology to achieve integrated control of power generation units, loads, transformers, submarine cables and other equipment in oilfield group energy management. The comprehensive automation management system realizes the operation monitoring, operation and control, intelligent application, etc. of marine platform equipment through a domestically produced monitoring and configuration platform.

	安全稳定控制柜 control cabinet	数据通信网关柜 Network cabinet	AGC/AVC主机柜 Generator control cabinet
主控制柜数量 main control cabinet Number	1-2	1	1
单面柜体积 Single side cabinet volume	800*800*2100mm	800*800*2100mm	800*800*2100mm
额定电压 Rated Voltage	AC 220V	AC 220V	AC 220V
装置类型 Device Type	采集执行单元、继电保护装置、安全自动装置、多功能测控装置等 Data acquisition execution unit, relay protection device, safety automatic device, multi-function measurement and control device, etc.		



综合自动化管理系统/ICSS

技术规格 Specification

一体化监控主机Integrated monitoring host:

实现全站设备运行监视、操作与控制、智能应用等。

安全稳定控制系统Security and stability control system:

由主站及子站等不同站点的多套安全稳定控制装置构成,接入模拟量并提供通讯接口。

保护子系统Protected subsystem:

包括进线公用测控屏、保护测控屏等。

应用场景 Application scenario

1. 岸电接入平台中,推广综合自动化系统(IAS)

Promote the Integrated Automation System (IAS) in the shore power access platform

2. 提供电站平台/岸电平台集中控制系统 (综合自动化管理+稳定控制管理)

Provide centralized control system for power station platform/shore power platform (comprehensive automation management+stable control management)

以上系统/设备选型、设计、策略制定等

The selection, design, and strategy formulation of the above systems/equipment.

商务参数 Application Scope

产品服务类型 Product Type 供货周期 Supply Cycle

第三方认证 Third-party Certification

EPCI 8~10 months CCS、DNV





属性(值)/Value	
	48-ft//Unit
D00EC-GCDZ (安全稳定控制制001)	A-100 can
I I	fr
3C220	v v
E1F020231101	
inter ((ii) / Value	W-ft//Dair
	1100000
1	fr fr
AC220	v.
E1P020231102	
76	10
State (III) /Colme	#66/Dait
	- Pritty Cutt
I	ft
AC220	v v
E1F020231103	
Select (IV) O abre	#6//Last
	A lib com
I	61
AC220	Y
EIP020231104	
ed out as below: 1. Visual inspection; 2. Insula	ntion resistance
电接触所导致的法律和经济责任。 place any approval and certification of the manufacturer ey and therefore takes no responsibility for these parties.	by any parties that bear The Society does not
本証书正文章/ End of Text*****	
	田内田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田



电气设备在线监测系统/EEMS



BASIC PARAMETERS 基本参数

	服务通信柜 control cabinet	操作员台 operator station
柜体数量 cabinet Number	1	1
单面柜体积 Single side cabinet volume	800*800*2100mm	800*800*1000mm
额定电压 Rated Voltage	AC 220V	AC 220V
装置类型 Device Type	显示 Serial server, gateway, switch, K\	、实时服务器、历史服务器、操作员站 、 示器等 /M switch, real-time server, history station, display, etc.



电气设备在线监测系统/EEMS

SPECIFICATION 技术规格

服务通信柜供电电压 Power supply voltage of Server cabinet AC230V

操作员站供电电压 Power supply voltage of Oprator Staion AC2300V

CPU负载率 Server CPU load rate 正常情况下,服务器平均负荷率下小于15%,

操作员站平均负荷率下小于30%,

通讯接口 Communication interface 支持Modbus RTU、Modbus TCPIP等

系统存储容量 System Storage Capacity 历史数据存储时间不少于2年

工控网络安全 Industrial control network securit 符合等保2.0 二级网络安全标准

设计寿命 Design Life >25 years

APPLICATION SCOPE 应用范围

新平台智能化建设 Intelligent Construction for New Platform 在役平台智能化改造 Intelligent Improvement for In-service Platform

BUSINESS PARAMETERS

商务参数

供货周期 Supply Cycle 3~5 months

产品服务类型 Product Type EPCI&After Sales Service

PROJECT ACHIEVEMENT

工程业绩

时间/YEAR	项目名称/NAME	数量/SET
2022年	恩平项目/Enping	1
2023年	渤中项目/Bozhong	1
2023年	惠州项目/Huizhou	1

AFTER-SALES SERVICE



通过多年的积累,目前已有一支技术过硬的售后队伍,充分服务于公司产品的质保工作,一 旦在质保期内设备出现运行故障或备品备件更替问题,能够在第一时间响应并开展相关故障排查、 部件更换等工作,最大程度降低因设备原因对平台生产造成的影响,并收集现场问题,避免以后 交货设备出现类似问题,使公司产品形成闭环管理。

