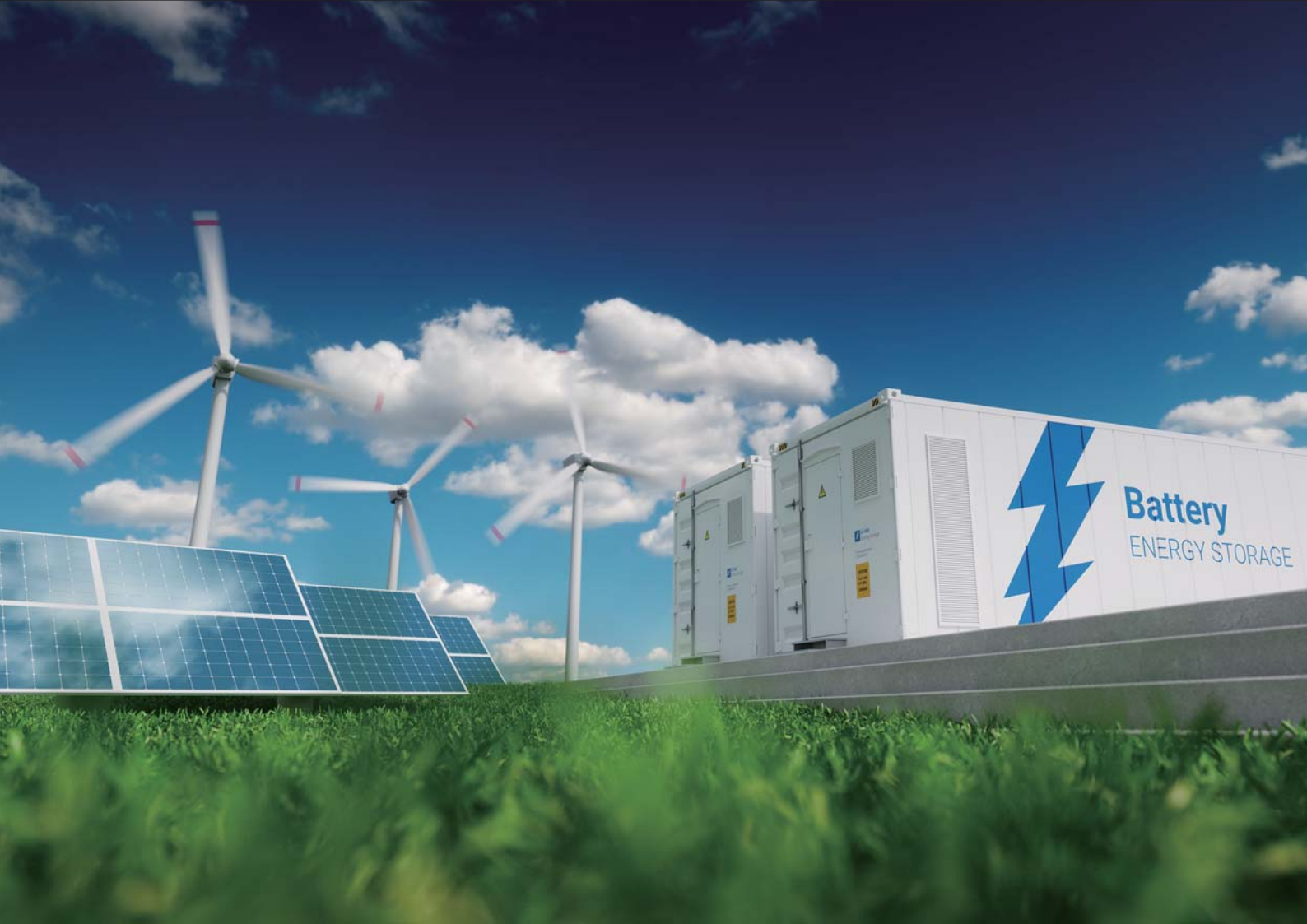




SGS电力转换系统以及储能系统 产品测试认证服务

SGS TESTING AND CERTIFICATION SERVICES FOR PCS & ESS



公众号



视频号

扫描二维码
了解更多信息

SGS

When you need to be sure

关于SGS

About SGS

SGS是国际公认的测试、检验和认证机构，是质量和诚信的基准。SGS集团在世界各地共有99,600多名员工，分布在2,600多个分支机构和实验室，构成了全球性的服务网络。

SGS通标标准技术服务有限公司是SGS集团和隶属于原国家质量技术监督局的中国标准技术开发公司共同建成于1991年的合资公司，在中国设立了100多个分支机构和200多间实验室，拥有16,000多名训练有素的专业人员。

SGS is the world's leading testing, inspection and certification company. SGS is recognized as the global benchmark for quality and integrity. With more than 99,600 employees, SGS operates a network of over 2,600 branches and laboratories around the world.

SGS-CSTC Standards Technical Services Co. Ltd. was founded in 1991 as a joint venture between SGS Group and China Standard Technology Development Corp. under the State Administration of Quality Technical Supervision. With an extensive network of 100 branches and over 200 laboratories, we have more than 16,000 professionals working for us.

实验室简介

Laboratory introduction

SGS中国现已在上海、宁波、广州、深圳、顺德投资建立了电子电气安全实验室。安全实验室均已获得中国合格评定国家认可委员会(CNAS)认可资质，并取得国际电工委员会电工产品合格与认证组织(IECEE)颁发的CB测试实验室(CBTL)证书。

SGS has invested the electrical and electronics safety labs in Shanghai, Ningbo, Guangzhou, Shenzhen and Shunde. These labs have been accredited by China National Accreditation Service for Conformity Assessment (CNAS), and have obtained The CB Testing Laboratory (CBTL) Certificate issued by International Electrotechnical Commission for Product Conformity and Certification Organization (IECEE).

- SGS是ENAC (西班牙国家认证机构, ILAC和IAF成员)认可的认证机构(ISO/IEC 17065)和测试实验室(ISO/IEC 17025)
- SGS是北美OHSAS 18001认可的太阳能光伏实验室(NRTL)(包含标准UL 1741, IEEE 1547, UL 9540, UL 1998)
- SGS是第一家获得光伏逆变器CB方案安全和性能标准认证的全球测试实验室(包含标准IEC 62109-1, IEC 62109-2, IEC 62116, IEC 61727和IEC 61683)
- SGS是澳洲JAS-ANZ认可的实验室
- SGS是巴西INMETRO认可的实验室

- SGS is accredited by ENAC (National Accreditation Body of Spain is member of ILAC and IAF) as Certification Body (ISO/IEC 17065) and Testing Laboratory (ISO/IEC 17025)
- SGS is accredited by OHSAS 18001 for solar as NRTL (UL 1741, IEEE 1547, UL 9540, UL 1998)
- SGS became the first worldwide testing laboratory to obtain accreditation for safety and performance standards under CB Scheme for PV inverters. (IEC 62109-1, IEC 62109-2, IEC 62116, IEC 61727 and IEC 61683)
- SGS is accredited by JAS-ANZ for Australia
- SGS is accredited by INMETRO for Brazil

电力转换系统和储能系统测试认证服务简介

Testing and certification services introduction for PCS

SGS配备先进的检测仪器、测试设备以及专业的测试认证人员，能够为PCS厂商以及ESS集成商提供高效、专业的一站式检测认证服务及全球国际市场准入服务。

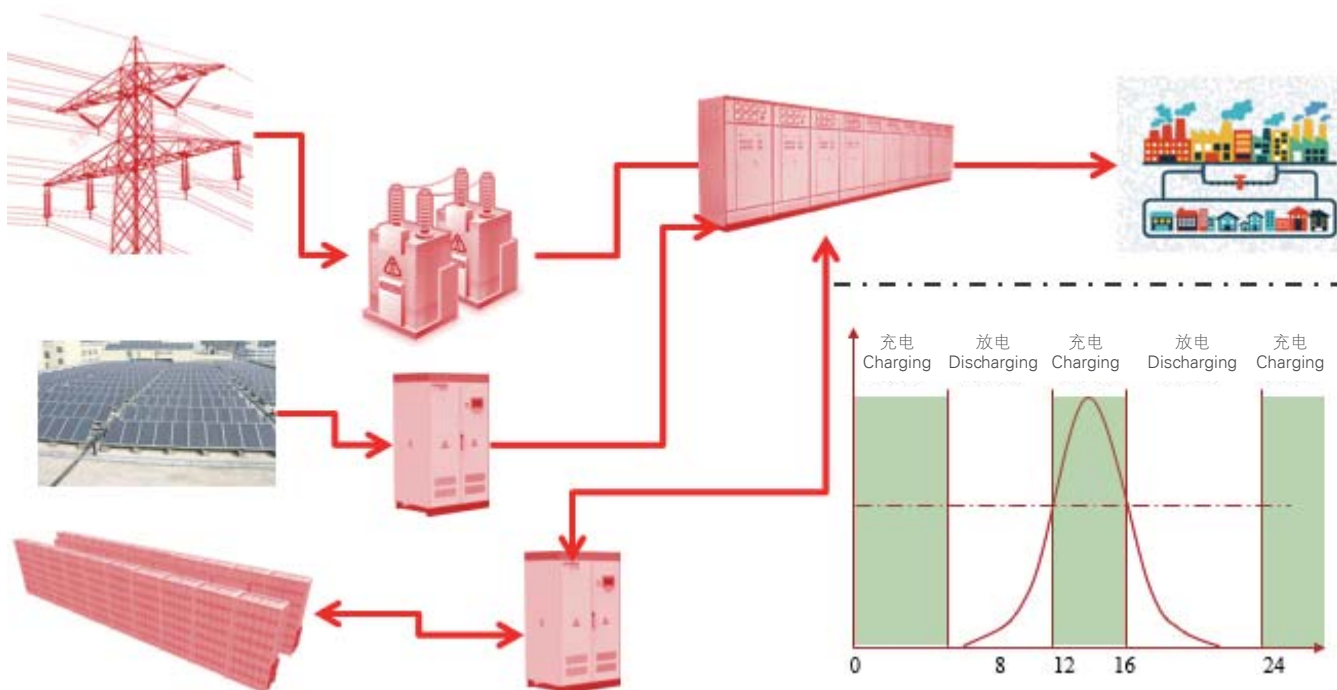
SGS is equipped with advanced testing instruments, testing equipment and test and certification professionals. It can provide PCS manufacturers and ESS integrators with convenient and efficient one-stop services and the service of global market access.

电力转换系统和储能系统测试认证服务简介

Testing and certification services introduction for PCS

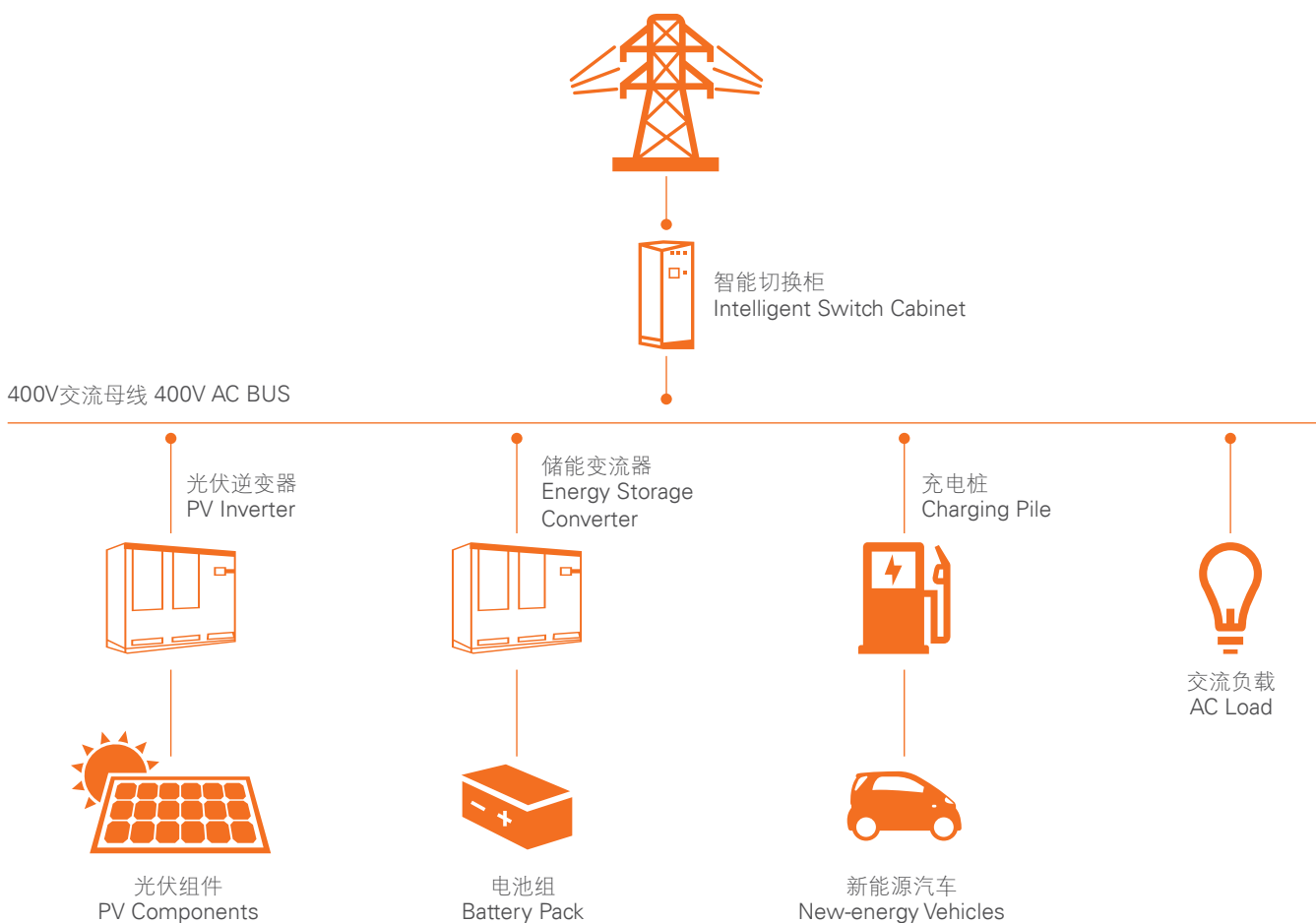
分布式光伏+储能，提高自用比例

DISTRIBUTED PV + ENERGY STORAGE, INCREASE THE PROPORTION OF PRIVATE USE



光储充一体化系统集成

THE SYSTEM INTEGRATING OF THE PHOTOVOLTAIC POWER, ENERGY STORAGE AND CHARGING FUNCTION



电力转换系统和储能系统主要测试项目

Testing items

测试内容

- 产品结构设计
- 安全性测试
- 电网接入规范
- 产品效率
- 功能安全评估

TESTING CONTENT

- Product Structure Design
- Safety Testing
- Grid-connecting Specification
- Productive Efficiency
- Functional Safety Assessment

常用PCS测试标准

PCS testing standards

项目 ITEM	市场 MARKET	测试标准 TESTING STANDARD
安规 Safety	IEC/EN适用标准 IEC/EN standard applicable	IEC/EN 62109-1, IEC/EN 62109-2
	IEC/EN适用标准 IEC/EN standard applicable	IEC/EN 62477-1
	IEC/EN适用标准 IEC/EN standard applicable	IEC/EN 62040
	北美 North America	UL 1741, UL 62109
电网接入 Grid-Connecting	IEC/EN适用标准 IEC/EN standard applicable	IEC 61727
	IEC/EN适用标准 IEC/EN standard applicable	IEC 62116
	巴西 Brazil	ABNT NBR 16149 & 16150, ORDINANCE NO. 140
	德国 Germany	VDE-AR-N 4105, VDE V 0124-100, VDE 0126-1-1, VDE 4110, VDE 4120, BDEW (TG3, TG4, TG8)
	意大利 Italy	CEI-016, CEI-021
	西班牙 Spain	UNE 217001, UNE 217002, NTs (Type A/B/C/D)
	英国 UK	G98, G99, G100
	南非 South Africa	Grid Code for RPPs, NRS 097-2-1
	法国 France	Arrete 23, UTE C15-712-1, UTE C15-712-3
	欧盟 EU Market	EN 50549-1, EN 50549-2, EN 50549-10
	澳洲 Australia	AS 4777.2
	迪拜 Dubai	DEWA Standards
	智利 Chile	NTCO, NTSyCS
	约旦 Jordan	NEPCO Grid Codes according to IRR-TIC & IRR-DCC-MV
	墨西哥 Mexico	Resolución 151/2016
	北美 North America	IEEE 1547, UL 1741SA, UL 1741SB, Rule 21, UL 1998, UL 1699B, HECO
效率测试 Efficiency test	欧洲市场 European market	EN 50530
	IEC适用标准 IEC standard applicable	IEC 61683
	北美 North America	CEC

常用储能系统测试标准

ESS testing standards

地区 REGION	测试标准 TESTING STANDARD	产品 PRODUCTS
全球/欧洲 Global/Europe	IEC 62933-2-1	单位参数与测试方法 — 一般规范 Unit parameters and testing methods - General specification
	IEC 62933-5-2	并网储能系统的安全要求 — 电化学系统 Safety requirements for grid-integrated EES systems - Electrochemical-based systems
北美 North America	ANSI/CAN/UL 9540	储能系统安全标准 STANDARD FOR SAFETY Energy Storage Systems and Equipment
	NFPA 855	固定储能系统安装标准 Standard for the Installation of Stationary Energy Storage Systems
德国 Germany	VDE 2510-2	用于连接到低压电网的固定电力储能系统 Stationary electrical energy storage systems intended for connection to the low voltage grid
	VDE 2510-50	带有锂电池的固定电池储能系统 — 安全要求 Stationary battery energy storage systems with lithium batteries - Safety requirements

常用于PCS、ESS和储能电池的软件评估与功能安全标准

Testing standards of software evaluation and functional safety for ESS, PCS and energy storage batteries and cells

地区 REGION	测试标准 TESTING STANDARD	产品 PRODUCTS
全球/欧洲 Global/Europe	IEC/EN 60730-1 Annex H	控制电路的安全结构和软件要求 Requirements for electronic controls
	IEC 61508 series	电子电气等可编程系统的功能安全要求 Functional safety requirements for electrical and electronics programmable systems
	EN ISO 13849	安全相关的控制系统设计 Safety-related control system design
北美 North America	UL 991	安全相关的电子控制设备测试 Tests for safety-related controls employing solid-state devices
	CSA C22.2 No.0.8	具备电子技术的安全功能 Safety functions incorporating electronic technology





IECEE-CB体系 IECEE-CB scheme

CB是世界五大洲各国广泛采纳的产品认证互认计划，它标志着被认证的电器产品符合IEC标准，CB计划得到全球CB成员国或非CB成员国家和地区的共同认可。CB互认计划能有效的节省重复测试的时间和成本。一般情况下，厂商取得SGS颁发的CB测试报告和证书，再加上进口地的国家差异就可轻松转换为当地认可的测试报告，原则上只需附加少量费用即可申请当地认证。

CB (Certification Bodies) is a mutual recognition scheme for product certification widely adopted by various countries around the world. It symbolizes the conformity of IEC standards for certified electrical products. CB scheme has won the recognition from the global CB member states and non-CB member states and districts. CB scheme is of great benefit in saving time and costs of repeated testing. Generally, it's an easy way for Chinese manufacturers to have the recognized test report in import country converted from CB certification and reports from SGS which includes import country deviations. In principle, the company only needs to pay some surcharges to apply for the local certification.

SGS北美认证服务 SGS NA listed mark service

SGS North America已获得美国职业安全与健康管理局(OSHA)认可为美国国家认可实验室(NRTL)及加拿大标准理事会(SCC)授权。产品贴有SGS北美认证标志表明该产品已经符合指定的相关安全或性能标准的要求。

SGS North America has been accredited by the Occupational Safety and Health Administration (OSHA) as a Nationally Recognized Testing Laboratory (NRTL) in USA, it has also been accredited by the Standards Council of Canada (SCC) in Canada. Product labeled with SGS NA Listed Mark indicates that this product complies with designated requirements of safety or performance standards.

其他测试认证服务

Other services

- SGS产品安全认证
- SGS芬兰认证
- SGS比利时(CEBEC)认证
- SGS德国GS认证
- 日本PSE认证
- SGS Product Safety
- SGS FIMKO
- SGS CEBEC
- SGS GS
- Japan PSE

认证标志

Certification mark



证书模板

Certificate template



SGS CB证书模板
SGS CB Certificate Template



SGS北美认证证书模板
SGS North America
Certificate Template



SGS Product Safety证书模板
SGS Product Safety
Certificate Template



SGS BSMI证书模板
SGS BSMI Certificate Template

联系我们

Contact us

深圳 Shenzhen
T: + 86 (0)755 2654 4661
E: ee.shenzhen@sgs.com

上海 Shanghai
T: + 86 (0) 21 6191 5016
E: ee.shanghai@sgs.com

广州 Guangzhou
T: + 86 (0)20 8215 5411
E: ee.guangzhou@sgs.com

香港 Hongkong
T: + 852 2204 8343
E: ee.hk@sgs.com

When you need to be sure