UDC

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

P GB/T 50479–2011

Technical code of cabinet (panel) for protection and automation equipments of electric power system

电力系统继电保护及自动化设备柜（屏）工程技术规范

Issued on July 26, 2011 **Implemented on June 01, 2012**

Issued by **Ministry of Housing and Urban-Rural Development of the People's Republic of China**

General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China

National Standard of the People's Republic of China

Technical code of cabinet (panel) for protection and automation equipments of electric power system

GB/T 50479-2011

Chief editorial department: China Electricity Council

Approval department: Ministry of Housing and Urban-rural Development of the People's Republic of China

Implementation date: June 1, 2012

China Planning Press

2011 Beijing

Announcement of Ministry of Housing and Urban-rural Development of the People's Republic of China

No. 1092

Announcement about the publishment of national standards *Technical Code of Cabinet (Panel) for Protection and Automation Equipments of Electric Power System*

Hereby approves the *Technical Code of Cabinet (Panel) for Protection and Automation Equipments of Electric Power System* as the national standard, numbered GB/T50479-2011, being implemented since June 1, 2012.

The Code is published and distributed by China Planning Press, which was organized by Standard Rating Research Institute of our department.

Ministry of Housing and Urban-rural

Development of the People's Republic of China

July 26, 2012

Foreword

This specification is prepared according to the requirements of the former *Notice on Printing and Distributing the Preparation and Modification (The Second Batch) of the Engineering Construction Standards in 2005* (JBH [2005] 124) of the Ministry of Construction; it is prepared jointly by Nanjing Automation Co., Ltd of State power, State Grid Electric Power Research Institute, Nanjing NR Electric Co., Ltd, Beijing Sifang Automation Co., Ltd and China Electric Power Research Institute.

During the preparation of this specification, the drafting group has investigated and researched the production and use of the protective relaying and automation equipment cabinet (panel) of our nation's electric system; they have compared it with the relevant international standard and foreign technical standards; they have discussed, modified and perfected it on basis of soliciting opinions from all sides; finally they made the specification being checked and approved.

This specification is divided into four chapters. It's main content includes: General Provisions, General Requirements, Assembly and Installations, Project Handover and Acceptance

This specification shall be managed and explained by Ministry Of Housing and Urban-rural; the China Electric Power Enterprise Federation Standardization Center shall be in charge of the current management; the Nanjing Automation co., LTD of State Power shall be in charge of the interpretation of the specific technical content. During the implementation of this specification, each unit shall seriously sum up experience and accumulate data on basis of the engineering practice; each organization shall feedback the opinions and suggestions to Nanjing Automation Co., Ltd. of State Power(address: No.38, Xinmofan road, Nanjing, Jiangsu, post code 210003) for the later reference and modification.

Chief editorial units, participated units, main drafters and main examiners of the Code:

Chief editorial units: Nanjing Automation Co., Ltd.

Participated units: China Electric Power Research Institute

Nanjing Nari-relays Electric Co., Ltd.

	Beijing Sifang Relay Protection Automation Co., Ltd.		
	China Electric Power Research Institute		
Main drafters:	Zhong Zezhang	Chen Yunlun	Zhang Yu
	Yin Donghai	Zhang Kaiguo	Tian Heng
	Chen Fayu		
Main examiners:	Wu Ji’an	Zheng Yuping	Zhang Tao
	Zhao Manyong	Liu Tianbin	Zhang Jiankang
	Zhang Hongqi	Huang Minghui	Li Tianhua
	Meng Zhihong	Gao Xiang	Wang Ying
	She Xiaoping	Yang Ming	Wu Lijun
	Wang Xiangping	Qin Changrong	Xia Qiyu
	Guo Xiaojun	Zhang Kaiguo	Shen Xiaofan
	Guo Yandong	Chen Yunlun	Sun Guanfu
	Yin Donghai	Wu Bei	Sun Guanghui
	Zhou Dongji	Li Qunju	

Contents

1 General provisions

1.0.1 In order to unify the technical management and the requirements of design, installation, debugging and acceptance of power system relay protection and automation equipment cabinet (panel) (hereinafter referred to as cabinet (panel)), and to improve the quality of installation, debugging and running level of relay protection and automation equipment cabinet (panel), hereby we prepare this specification.

1.0.2 This specification applies to the model selection, installation, testing and acceptance of power system relay protection and automation equipments cabinet (panel).

1.0.3 Except for complying with this specification, the model selection, installation, testing and acceptance of power system relay protection and automation equipments cabinet (panel) should also be consistent with the specifications of the national existing relevant standard.

2 General requirement

2.1 Environmental condition

2.1.1 The normal working atmospheric conditions of the cabinet (panel) shall meet the following requirements:

1 The environmental temperature shall be compliant with the following regulations:

1) Indoor: -5 ℃ - +40 ℃ or -10 ℃ - +55 ℃;

2) Outdoor: -25 ℃ - +55 ℃;

2 Relative humidity: 5% - 95%;

3 Atmospheric pressure: 70kPa - 101kPa.

2.1.2 Mechanical vibration of the installation site should not exceed level 1 severity provisioned by the current national standard *Electrical Relay Part 21: Part 1 of Vibration, Impact, Collision and Seismic Tests Measuring the Relays and Protection Devices: Severity of the Vibration Test (Sine)* GB/T11287, and it shall not exceed the impact and collision of the level 1 severity which is provisioned by the current national standard *Shock and Collision Test Measuring the Relays and Protection Devices* GB/T14537 either.

2.1.3 The ground resistance of the installation site shall comply with the current national standard *Electronic Computer Site General Specification* GB/T2887; also, it shall comply with current industry standards *Electronic Equipment Lightning Protection Technical Guidance* DL/T381.

2.1.4 The installation site should meet the Class B safety requirements of the current national standard *Safety Requirements for Computing Station Field* GB9361.

2.2 Electrical rating

2.2.1 AC circuit rating can be selected from the following values:

1 AC voltage can be 100/$\sqrt{3}$ V, 100V;

2 AC current can be 1A, 5A;

3 Rated frequency can be 50Hz.

2.2.2 Working power rating can be selected from the following values:

1 DC supply voltage can be 48V, 110V and 220V;

2 AC supply voltage can be 220V.

北京文心雕语翻译有限公司
Beijing Lancarver Translation Inc.

完整版本请在线下单

或咨询：

TEL: 400-678-1309

QQ: 19315219

Email：info@lancarver.com

http://www.lancarver.com

对公账户：

单位名称：北京文心雕语翻译有限公司

开 户 行：中国工商银行北京清河镇支行

账　　号：0200 1486 0900 0006 131

支付宝账户：info@lancarver.com

注: 付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！