



电子质量

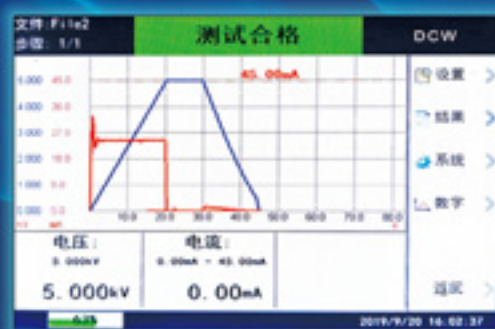
ELECTRONICS QUALITY



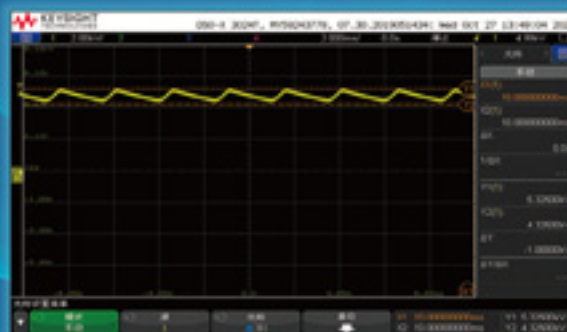
程控多路电容器漏电流测试仪

新型直流技术 ✓

- 纹波系数小于1%
- 最高测试电压可达50kV
- 最大充电电流可达500mA
- 测试精度1%
- 可实现2种充电方案：上升准恒流充电及恒流充电
- 电流测试自动换档
- 恒压输出，自动调整输出电压
- 充电电流与测试报警电流可分别设置



满载情况纹波系数在5%以内



满载情况纹波系数小于1%

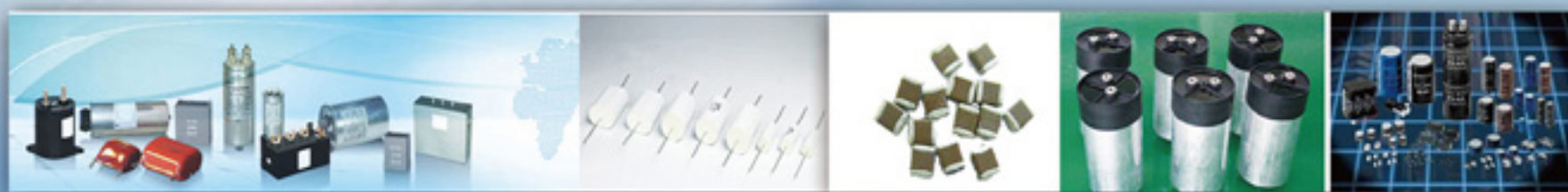


/ 更多安规测试解决方案 / <http://www.csallwin.com>

医疗器械/压电陶瓷、高分子材料、半导体、线路板、铝基板/锂电池、充电桩/连接器、接插件电阻、压降测试/机车(高铁、动车、地铁)/光伏组件/电容器/电机、变压器(线圈类)/灯具/电力电表、配网终端电力系统等

电话: (025) 68132208 68132218 68132228

特别适用于高电压大容量电容器的漏电流测试和耐压击穿测试



电子质量

DIANZI ZHILIANG

(月刊)公开发刊

1980 年创刊

2022 年第 10 期(总第 427 期)

目次

测试测量技术

理论与研究

- 01 软件测试质量评估方法研究 阳红 车凌 郭萌
- 05 卫星链路传输 5G 业务优化技术应用研究
王云飞 李晓晨 王凯 张荣超 郝晓强 郭晓龙
- 11 基于改进跨零点法的大波波高测量研究
张维星 张锁平 王斌 党超群 上官亮
- 17 实验室信息管理系统人工智能化研究进展 韩立业 张佩文 陈晓曼
- 21 基于空间阻隔模型及 A 星算法的可达性评价 朱贤平

通用测试

- 25 冷阴极紫外灯故障检测方法研究 王跃能
- 31 电桥法测电阻实验的一些探讨 饶黄云 吕波 黄晓泽 南娇娇
- 35 日本 Plasauto Σ 血液净化装置的点检与维修 梁伟斌 卢岳峰

专业测试

- 39 基于 FPGA 的 LPC 总线转多路 SPI 总线设计 蒋国庆 顾军
- 46 幅度调制信号数字化测频技术 赵金龙 顾军
- 50 老炼用印制电路板(PCB)常见异常处理方法研究
姜汝栋 戴莹 陈光耀

可靠性分析

- 54 电压源变频器整流电路的二极管失效分析研究 窦金龙 高军 姚震洋
- 58 一种提升雷达脉冲参数测量单元可靠性的方法
何茹姣 王化 杨川 范晨欣

绿色质量观察

产品设计与开发

- 63 双读数系统编码器设计 穆如传 石洪 周柏 章帆
- 67 一种机载型制氧系统的设计与实现 张琦 龚键
- 72 基于区块链的等级保护测评数据防泄漏系统
杜晓杰 梁承东 彭世强 成嘉轩
- 77 基于双目视觉的机器人引导系统研究 林福师 薛浩宇 蒙国良

- 83 人防工程防护设备质量检测与评估系统设计 柴永生 王月桂 王东旭
- 89 基于 SSM 框架的网上摄影系统设计与实现 王棋

测评与应用

- 94 计算机图像处理与识别技术应用 刘亚平
- 98 预防引风机失速的自动控制功能研究及应用 万彪
- 101 燃煤机组尿素水解制氨系统优化设计研究 黄见勋

绿色质量与管理

- 107 基于精益思想的钻机生产布局改善 刘阳
- 111 防雷装置检测质量控制研究 王汉堃
- 114 美军机场毁伤评估综述 韩戈白 赵志傲 芦苇 车锦邑 廖佳鑫
- 120 电子装备特性分析以及关重件质量控制方法研究 钱淑丽 聂磊 曹颖
- 127 "质量管理体系内部审核"对企业发展的重要性研究 周山 景梅霞
- 130 基于信息系统体系作战的装备保障能力解构 李锋 徐添杰
- 133 "发电厂电气部分"实践教学模式探索与改革
徐善智 任家智 韩泓 辛鑫 孙江

认证与实验室

多国认证

- 136 新型锂电暖手宝产品风险识别与测评 丁吕龙 顾聿成 孟亚利
- 141 对交流直流两用断路器部分短路试验解析 蔡贵雨
- 144 一种可用于平板电视绿色产品认证的减碳量评估方法
童海 王平松 邓波
- 148 消防应急灯具放电终止电压测量不确定度评定 孔祥朋

实验室特写

- 151 守时系统钟组规模技术验证 张杰梁 陈鲤文 陈静 张煌辉 姜立斌
- 158 关于二阶 RC 锂电池模型的仿真研究 杨曦 李昕
- 163 单自由度时滞反馈控制系统的参数辨识 程亚梅
- 167 超细二氧化钼-碳复合物的制备及其储锂性能研究 黄晓霞

电磁兼容

- 171 机载有源相控阵雷达的 BIT 设计 马强
- 175 防除冰配电盒 RE102 超标问题分析及改进 周为 魏斌 汪佳 魏韬 黄时军
- 181 基于自动体外除颤仪的电磁兼容试验分析 陈婕 赵五芹 邱波 张晓庆

Electronic Quality

Founded 1980

NO.10(Serial No.427),2022

(Monthly)

CONTENTS

Test & Measurement Technology

Theory & Research

- 01 – Research on Software Testing Quality Evaluation Method
Yang Hong Che Ling Guo Meng
- 05 – Research on 5G Service Optimization Technology of Satellite Link Transmission
Wang Yun-fei Li Xiao-chen Wang Kai Zhang Rong-chao Hao Xiao-qiang Guo Xiao-long
- 11 – Research on Large Wave Height Measurement Based on Improved Zero Crossing Method
Zhang Wei-xing Zhang Suo-ping Wang Bin Dang Chao-qun Shangguan Liang
- 17 – Research Progress on Artificial Intelligence of Laboratory Information Management System
Han Li-ye Zhang Pei-wen Chen Xiao-man
- 21 – The Evaluation of Accessibility Based on Separation Model and A-star Algorithm
Zhu Xian-ping

General Test

- 25 – Research on Fault Detection Method of Cold Cathode Ultraviolet
Wang Yue-neng
- 31 – Some Discussions on Resistance Measurement Experiment by Bridge Method
Rao Huang-yun Lv Bo Huang Xiao-ze Nan Jiao-jiao
- 35 – Spot Inspection and Maintenance of Japan Plasauto Σ Blood Purification Device
Liang Wei-bin Lu Yue-feng

Professional Test

- 39 – Design of LPC Bus to Multi-Channel SPI Bus Based on FPGA
Jiang Guo-qing Gu Jun
- 46 – Digital Frequency Measurement Technology for Amplitude Modulation Signal
Zhao Jin-long Gu Jun
- 50 – Research on Common Anomalies Handling Methods of PCB for Burn-in
Jiang Ru-dong Dai Ying Chen Guang-yao

Reliability Analysis

- 54 – Study on Diode Failure Analysis of Voltage Source Inverter Rectifier Circuit
Dou Jin-long Gao Jun Yao Zhen-yang
- 58 – Method of Improving a Radar Pulse Parameter Measurement Unit Reliability
He Ru-jiao Wang Hua Yang Chuan Fan Chen-xin

Observation of Green Quality

Product Design and Development

- 63 – Encoder Design of Double Reading System
Mu Ru-chuan Shi Hong Zhou Bai Zhang Fan
- 67 – The Design and Implementation of an Airborne Oxygen Production System
Zhang Qi Gong Jian
- 72 – Blockchain-based Data Leakage Prevention System in Classified Protection of Cybersecurity
Du Xiao-jie Liang Cheng-dong Peng Shi-qiang Cheng Jia-xuan
- 77 – Research on Robot Guidance System Based on Binocular Vision
Lin Fu-shi Xue Hao-yu Meng Guo-liang
- 83 – Design of the Quality Inspection and Evaluation System of Civil Air Defense

- Engineering Protective Equipment Chai Yong-sheng Wang Yue-gui Wang Dong-xu
- 89 – Design and Implementation of Online Photography System Based on SSM Framework
Wang Qi

Assessment and Application

- 94 – Application of Computer Image Processing and Recognition Technology
Liu Ya-ping
- 98 – Research and Application of Automatic Control Function to Prevent Stall of Induced Draft Fan
Wan Biao
- 101 – Study on Optimal Design of Urea Hydrolysis System for Ammonia Production in Coal-Fired Unit
Huang Jian-xun

Green Quality & Management

- 107 – Research on Drilling Rig Layout Improvement Based on Lean Thinking
Liu Yang
- 111 – Quality Control for Detection of Lightning Protection Devices
Wang Han-kun
- 114 – Survey of Airport Damage Assessment after Attack of US Army
Han Ge-bai Zhang Zhi-ao Lu Wei Che Hao-yi Liao Jia-xin
- 120 – Research on Characteristic Analysis of Electronic Equipment and Quality Control Method of Critical Parts
Qian Shu-li Nie Lei Cao Ying
- 127 – Research on the Importance of "Internal Audit of Quality Management System" to Enterprise Development
Zhou Shan Jing Mei-xia
- 130 – Deconstruction of Equipment Support Capability Based on Information System of Systems Operations
Li Feng Xu Tian-jie
- 133 – Exploration and Reform of Practical Teaching Mode in Electrical Elements of Power Plant
Xu Shan-zhi Ren Jia-zhi Han Hong Xin Xin Sun Jiang

Certification & Labs

Multi-country Certification

- 136 – The Risk Identification and Evaluation of New Hand Warmer Powered by Lithium Battery
Ding Lv-long Gu Yu-cheng Meng Ya-li
- 141 – Discussion on Part of AC and DC Circuit Breaker under Short Circuit Test
Cai Gui-yu
- 144 – A Carbon Reduction Assessment Method for Green Product Certification of Flat Panel TV
Tong Hai Wang Ping-song Deng Bo
- 148 – Evaluation of Uncertainty in Measurement of Discharge Exhausted Voltage of Fire Emergency Luminaire
Kong Xiang-peng

Featured Lab

- 151 – Technical Verification of Clock Group Composition of Punctuality System
Zhang Jie-liang Chen Li-wen Chen Jing Zhang Huang-hui Jiang Li-bin
- 158 – Simulation Study of Second-Order RC Lithium Battery Model
Yang Xi Li Xin
- 163 – Parameter Identification of Single Degree of Freedom Time-delay Feedback Control System
Cheng Ya-mei
- 167 – Preparation and Lithium Storage Properties of Ultrafine Molybdenum Dioxide Carbon Composites
Huang Xiao-xia

EMC

- 171 – Build in Test Design for the Airborne Active Phased Array Radar
Ma Qiang
- 175 – Analysis and Improvement of Over Standard Problem of Anti Deicing Distribution Box RE102
Zhou Wei Wei bin Wang Jia Wei Tao Huang Shi-jun
- 181 – Electromagnetic Compatibility Test and Rectification Analysis of Automatic External Defibrillator
Chen Jie Zhao Wu-qin Qiu Bo Zhang Xiao-qing