



WILER ENERGY
威尔勒

智慧型物联网断路器专业制造商

Professional Manufacturer of Interlligent IOT Circuit Breaker

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企业微博

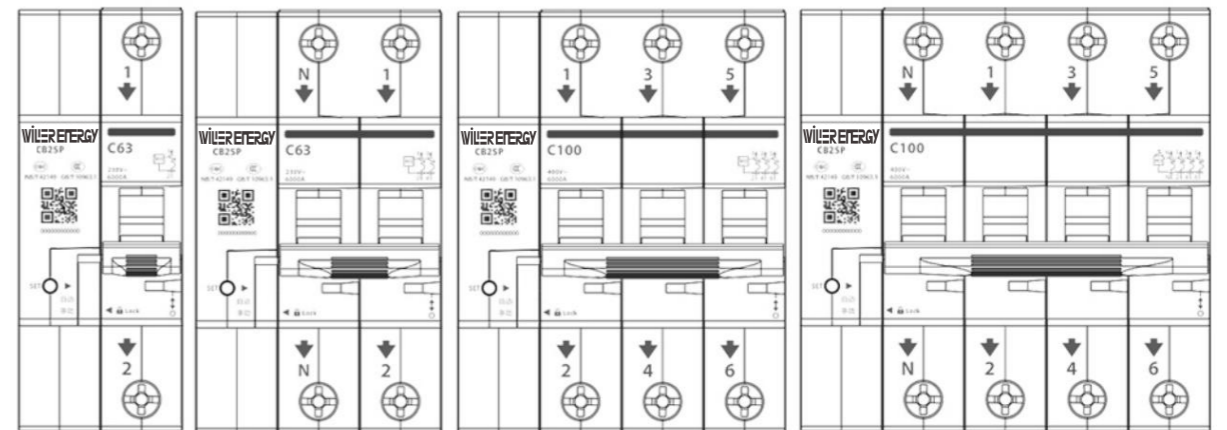


智慧型物联网断路器

Interlligent IOT Circuit Breaker

WILER ENERGY
威尔勒

WILLCB 智慧物联网 断路器





Professional manufacturer of
Intelligent IOT circuit breaker

Digital Power Distribution,Wisdom,Intelligence

智慧物联网断路器专业制造商

数字化配电·智慧·智能

城市能耗总量大、能源需求种类多，**威尔勒**综合能源解决方案，从规划设计、到实施、到运维为客户提供生命周期得到服务，彻底解决强弱电分离造成的责任主体不清，投资成本高，能耗浪费严重等痛点。

The total amount of energy consumption in the city is large, and there are many kinds of energy needs. **Wiler** comprehensive energy solutions, from planning and design, to implementation, to operation and maintenance, provide life cycle services for customers, and completely solve the pain points caused by the separation of strong and weak electricity, such as unclear subject of responsibility, high investment cost and serious waste of energy. Professional manufacturer of intelligent circuit breaker.

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WILLCB

Series

以技术赋能质量升级
追求更高品质

Technology empowers quality upgrade Pursue higher quality

Multi Functionality of Intelligent IOT Circuit Breaker

智慧物联网断路器多功能性

传统断路器+时控开关+电能表+电流表+电压表+互感器+温控器+遥控器+
自复式过欠压保护器+热继电器+漏电保护器+电气火灾监测系统+

Traditional circuit breaker+time control switch+electric energy meter+
ammeter+voltmeter+transformer+temperature controller+remote controller+
Self resting overvoltage and undervoltage protector+thermal relay+leakage protector+
electrical fire monitoring system+.....

- 安全 Safety
- 可靠 reliable
- 高效 Efficient



<p>传统断路器 Conventional circuit breaker</p>	<p>时控开关 Time controlled switch</p>	<p>电能表 Electric energy meter</p>	<p>电流表 Ammeter</p>
<p>电压表 Voltmeter</p>	<p>互感器 Transformer</p>	<p>温控器 Thermostat</p>	<p>遥控器 Remote control</p>
<p>自复式过欠压保护器 Self resetting overvoltage and undervoltage protector</p>	<p>热继电器 Thermal relay</p>	<p>漏电保护器 Leakage protector</p>	<p>电气火灾监测系统 Electrical fire monitoring system</p>

全电量数据高度集成
Full power data highly integrated

高质量的传统断路器 | 精确管理的数字断路器 | 实时的数字电表 | 能耗监测和管理平台
远程电控系统 | 设备健康管理平台 | 用电安全与电气火灾监管平台

High quality traditional circuit breaker | Precisely managed digital circuit breaker | Real time digital electricity meter
Energy consumption monitoring and management platform | Remote electric control system
Equipment health management platform | Electricity safety and electrical fire supervision platform

Function Comparison Between

Intelligent IOT circuit breaker and Traditional Circuit Breaker

智慧物联网断路器与传统断路器的功能对比

(物联网断路器的优势 Advantages of intelligent IOT circuit breaker)

比传统断路器新增多项功能：故障预警、过欠压报警、本地锁定、漏电功能自检、安全信息记录、电能计量、远程分合闸控制、电能因数设置、过温保护、电流限定、定时控制、物联网通讯、支持远程升级.....

More functions than traditional circuit breakers: fault early warning, overvoltage alarm, local locking, self inspection of leakage function, safety information recording, electric energy metering, remote opening and closing control, power factor setting, over temperature protection, current limitation, timing control, Internet of Things communication support for remote upgrading

物联网通讯
Internet of Things communication

电能因数设置
Power factor

远程分合闸控制
Remote opening and closing control

本地锁定
Local lock

漏电功能自检
Leakage function self check

安全信息记录
Safety information record

电能计量
Support remote upgrade

支持远程升级
Support remote upgrade

过欠压报警
Overvoltage and undervoltage alarm

电流限定
Current limitation

过温保护
Over temperature protection



运维成本高
High operation and maintenance costs

低压电气运维效率低，运维人员投入大
Low efficiency of low-voltage electrical operation and maintenance, Large input of operation and maintenance personnel



线路损失大
Large line loss

区低压运维效率低，窃电及违规用电严重
Low voltage operation and maintenance efficiency, serious power theft and illegal power use



客户满意度低
Low customer satisfaction

事故隐患无法及时发现，线路故障无法精准定位，停电处理被动
The potential accident cannot be found in time, the line fault cannot be accurately located, and the power failure is handled passively



技术瓶颈
Technical bottleneck

用电调度冗余、营配分离、无法贯通、用户侧无法打通
Redundancy of power dispatching, separation of business and distribution, failure to connect, and failure to connect at the user side



Features 特色功能

01 漏电自检功能 Leakage selfcheck function

可设定每月定时进行漏电自检，主动监测，确保产品安全、支持独立设定某一断路器的自检设定，针对特殊场景支持漏电自检不分闸设置；

It can be set to conduct leakage self inspection at regular intervals every month and actively monitor to ensure product safety.It supports the self inspection setting of a circuit breaker independently,and supports the non opening setting of leakage self inspection for special scenarios;

04 维修记录上传 Upload maintenance records

可通过平台填写维修记录，保存至智慧用电平台，建立设备维修档案；

Maintenance records can be filled in through the platform, saved to the smart power platform, and equipment maintenance files can be created;

07 三级管控 Three level control

为更好地体现实际电路连接方式，断路器支持总控、分控以及微控3种层级管控方式，支持APP中自定义层级，方便使用；

In order to better reflect the actual circuit connection mode, the circuit breaker supports three levels of control modes: master control, sub control and micro control,and supports user-defined levels in APP for easy use;

10 电费计算 Electricity charge calculation

物联网断路器具有统计电量的功能，可在APP中设定电价（固定电价、峰值电价），以此计算电费；

The circuit breaker of the Internet of Things has the function of electricity statistics.The electricity price (fixed price,peak price) can be set in the APP to calculate the electricity charge;

02 拓展优势 Expand advantages

1个智能云网关可以最多拓展32路断路器，节省工程造价，方便安装调试，便于售后维修，数据统计；

One intelligent cloud gateway can expand up to 32 circuit breakers,saving project cost, facilitating installation and commissioning, after-sales maintenance, and data statistics;

05 支持局域网控制 Support LAN control

部署本地服务器、搭建局域网，实现局域网管控服务；

Deploy local servers,build local area networks, and realize LAN management and control services;

08 及时报警推送 Timely alarm push

当线路发生异常时，PC端及APP端会自动弹窗提示；

When the line is abnormal, the PC and APP will automatically pop up a window;

11 独立电源设计方案 Independent power supply design scheme

断路器内置独立电源设计，适用多排断路器连接；售后维护、问题排查方便；

The circuit breaker is designed with built-in independent power supply, which is suitable for connection of multiple rows of circuit breakers; Convenient after-sales maintenance and problem troubleshooting;

03 维修锁定模式 Maintenance lock mode

当维修人员本地处理线路时，将黄色挂锁拉起，断路器自动分闸并进入锁定模式，此时远程无法控制断路器，保证现场用电安全；

When the maintenance personnel handle the line locally, pull up the yellow padlock, and the circuit breaker automatically opens and enters the locking mode.At this time, the circuit breaker cannot be controlled remotely to ensure the safety of on-site power use;

06 端子式连接方式 Terminal type connection mode

多个断路器采用端子式连接方式，安装简单，方便拆卸，快速维修，不干扰其它断路器正常工作；

Multiple circuit breakers adopt terminal type connection mode, which is simple to install, convenient to disassemble, fast to maintain, and does not interfere with the normal operation of other circuit breakers;

09 数据继承功能 Data inheritance function

维修和更换断路器后，可继承被替换断路器的场景设定、电量数据、基础功能设定等，数据不丢失、持续为管理作出保障；

After the circuit breaker is repaired and replaced, the scene settings, power data, basic function settings,etc.of the replaced circuit breaker can be inherited.The data will not be lost and will continue to guarantee the management;



Product Features 产品特点

支持全系列 Support the entire series

全系列支持1P、2P、3P、4P、1P+N、3P+N，额定电流6A-100A，6KA高分断电流
The whole series supports 1P,2P,3P,4P,1P+N,3P+N, Rated current 6A-100A, 6KA high breaking current

手动/自动 Manual/Automatic

支持本地手动推杆、本地电动控制和远程电动控制通断；
Support local manual push rod,local electric control and remote electric control on-off;

多重保护 Multiple protections

具有短路保护、过载保护、过欠压保护、漏电保护、缺相保护、温度保护、三相不平衡保护等
Short circuit protection,overload protection,overvoltage and undervoltage protection, leakage protection, phase loss protection, temperature protection, three-phase imbalance protection,etc

过载保护 Overload protection

具备过载热双金属元件保护和电子延时保护功能
Overload thermal bimetal element protection and electronic delay protection

快速断电 Fast power-off

线路漏电流达到24mA（可调）时，0.01秒分闸断电保护，保护类型A型/AC型，动作时间标准型/延时型
When the line leakage current reaches 24mA (adjustable) ,0.01s tripping and power-off protection, protection type A/AC, action time standard/delay type

漏电自检 Leakage self inspection

具有远程/本地漏电自检，定期定时漏电自检功能，支持自检不分闸
It has remote/local leakage self inspection, Regular and timed leakage self check function, and supports self inspection without opening

使能化 Intelligence

所有保护功能均可使能化
All protection functions can be enabled

自定义 Custom

所有保护功能阈值均可自定义
All protection function thresholds can be customized

本地/远程解锁 Local/remote unlocking

具备本地维修锁定模式，支持本地模式和远程模式切换
It has local maintenance locking mode and supports switching between local mode and remote mode

定时/延时控制 Timing/delay control

配合应用场景可进行定时、延时控制
Timing and delay control can be carried out according to the application scenario



监测报警 Monitoring alarm

异常状态监测报警，问题排查更清晰
Abnormal state monitoring and alarm,more clear problem troubleshooting

数据采集 Date acquisition






高精度全电量数据采集
High precision full power data acquisition

WILLCB 小型断路器产品选型表 Selection Table of WILLCB Miniature Circuit Breaker

小型断路器 Miniature circuit breaker	WILLCB9	WILLCB2
		
极数 Number of poles	1P	2P
额定电流 Rated current In	6A-32A	6A-100A
额定频率 Rated frequency f	50Hz/160Hz	50Hz/60Hz
额定工作电压 Rated operating voltage Ue	AC230V	AC230V
额定绝缘电压 Rated insulation voltage Ui	500V	500V
额定短路分断能力 Rated short-circuit breaking capacity Icn	4.5KA	6KA/10KA
额定运行分断能力 Rated operating breaking capacity Ics	4.5KA	6KA/10KA
额定冲击耐受电压 Rated impulse withstand voltage	6KA	6KA
瞬时脱扣类型 Instantaneous tripping type	B、C、D	B、C、D
连接外部导线的接线端子温升 Temperature rise of terminal connecting external wires	≤60K	≤60K
机械寿命 Mechanical life	10000次times	20000次times
电气寿命 Electrical life	4000次times	10000次times
防护等级 Degree of protection	IP20	IP20
接线螺丝扭力 Wiring screw torque	≤1.2Nm	≤4Nm
功耗 Power waste	≤1.8W	≤1.8W
安装使用条件 Installation and service conditions		
海拔要求 Altitude requirements	安装在海拔2000m以下 Installed below 2000m above sea level	
环境温度 Ambient temperature	-25°C至+70°C	
环境要求 Environmental requirements	无爆炸危险、无导电尘埃、无足以腐蚀金属和破坏绝缘、无显著震动和冲击的地方 No explosion hazard, conductive dust, places that can corrode metal, damage insulation, and significant vibration and impact	
相对湿度 Relative humidity	+40°C时, 空气的相对湿度不超过50%, 在较低温度下可以有较高的相对湿度 +When the temperature is 40°C, the relative humidity of the air shall not exceed 50%, and there can be a higher relative humidity at a lower temperature	
安装类型 Installation type	标准导轨 DIN 35mm Standard guide rail DIN 35mm	

高海拔降容系数表 High altitude derating coefficient table		
海拔 Altitude (m)	电压 Voltage Ui	额定电流 Rated current Ie
2000	1	1
2500	0.93	0.93
3000	0.88	0.9
4000	0.79	0.8
5000	0.75	0.7

WILLCB 小型断路器产品选型表 Selection Table of WILLCB Miniature Circuit Breaker

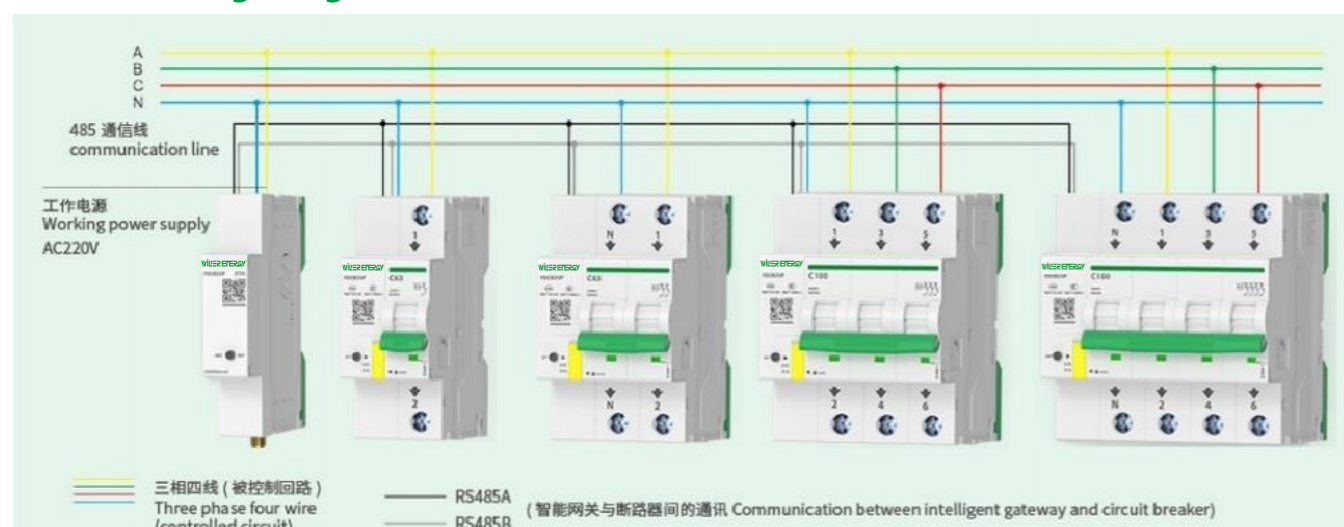
小型断路器 Miniature circuit breaker	WILLCB2SP			
				
极数 Number of poles	1P	2P	3P	4P
额定电流 Rated current In	6A-100A	6A-100A	6A-100A	6A-100A
额定频率 Rated frequency f	50Hz/60Hz	50Hz/160Hz	50Hz/60Hz	50Hz/60Hz
额定工作电压 Rated operating voltage Ue	AC230V	AC230V	AC400V	AC400V
额定绝缘电压 Rated insulation voltage Ui	500V	500V	500V	500V
额定短路分断能力 Rated short-circuit breaking capacity Icn	6KA/10KA	6KA/10KA	6KA/10KA	6KA/10KA
额定运行分断能力 Rated operating breaking capacity Ics	6KA/10KA	6KA/10KA	6KA/10KA	6KA/10KA
额定冲击耐受电压 Rated impulse withstand voltage	6KA	6KA	6KA	6KA
瞬时脱扣类型 Instantaneous tripping type	B、C、D	B、C、D	B、C、D	B、C、D
连接外部导线的接线端子温升 Temperature rise of terminal connecting external wires	≤60K	≤60K	≤60K	≤60K
机械寿命 Mechanical life	20000次times	20000次times	20000次times	20000次times
电气寿命 Electrical life	10000次times	10000次times	10000次times	10000次times
防护等级 Degree of protection	IP20	IP20	IP20	IP20
接线螺丝扭力 Wiring screw torque	≤4Nm	≤4Nm	≤4Nm	≤4Nm
功耗 Power waste	≤1.8W	≤1.8W	≤1.8W	≤1.8W
安装使用条件 Installation and service conditions				
海拔要求 Altitude requirements	安装在海拔2000m以下 Installed below 2000m above sea level			
环境温度 Ambient temperature	-25°C至+70°C			
环境要求 Environmental requirements	无爆炸危险、无导电尘埃、无足以腐蚀金属和破坏绝缘、无显著震动和冲击的地方 No explosion hazard, conductive dust, places that can corrode metal, damage insulation, and significant vibration and impact			
相对湿度 Relative humidity	+40°C时, 空气的相对湿度不超过50%, 在较低温度下可以有较高的相对湿度 +When the temperature is 40°C, the relative humidity of the air shall not exceed 50%, and there can be a higher relative humidity at a lower temperature			
安装类型 Installation type	标准导轨 DIN 35mm Standard guide rail DIN 35mm			

高海拔降容系数表 High altitude derating coefficient table		
海拔 Altitude (m)	电压 Voltage Ui	额定电流 Rated current Ie
2000	1	1
2500	0.93	0.93
3000	0.88	0.9
4000	0.79	0.8
5000	0.75	0.7

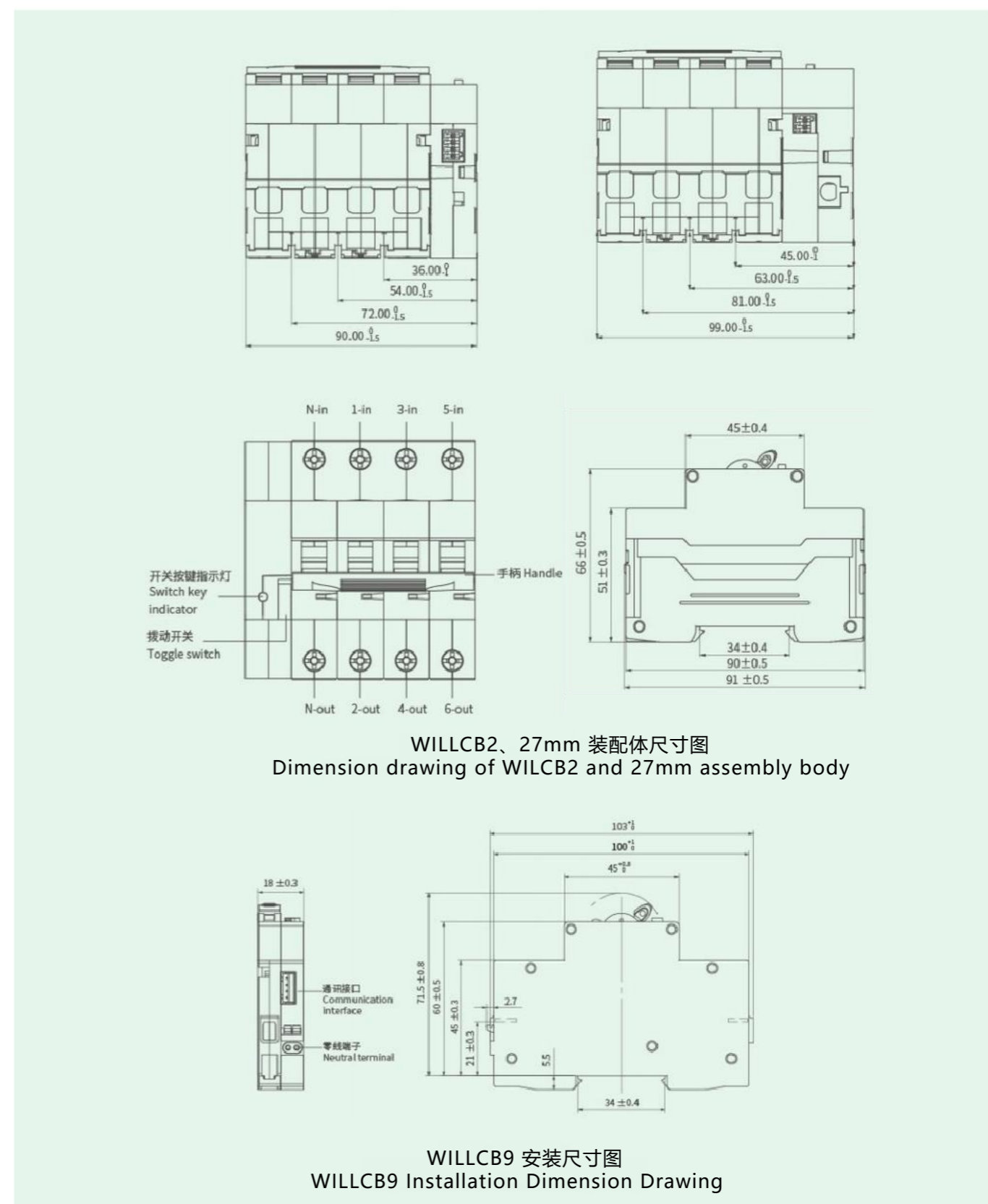
WILLCB 漏电断路器产品选型表 Selection Table of WILLCB Leakage Circuit Breaker

漏电断路器 Residual current circuit breaker	WILLCB2L	WILLCB2SLF	WILLCB4SLP
极数 Number of poles	2P	2P	4P
额定电流 Rated current I_n	6A-100A	6A-100A	6A-100A
额定频率 Rated frequency f	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
额定工作电压 Rated operating voltage U_e	AC230V	AC230V	AC400V
额定绝缘电压 Rated insulation voltage U_i	500V	500V	500V
线路漏电保护 Line leakage protection	线路漏电达到 $I_{\Delta n}$, 断路器 0.01s 断电保护 The line leakage reaches $I_{\Delta n}$, 0.01s power-off protection of circuit breaker	线路漏电达到 $I_{\Delta n}$, 断路器 0.01s 断电保护 The line leakage reaches $I_{\Delta n}$, 0.01s power-off protection of circuit breaker	线路漏电达到 $I_{\Delta n}$, 断路器 0.01s 断电保护 The line leakage reaches $I_{\Delta n}$, 0.01s power-off protection of circuit breaker
漏电保护类型 Leakage protection type	A 型、AC 型 Type	A 型、AC 型 Type	A 型、AC 型 Type
动作时间类型 Action time type	标准型、延时型 Standard type, delay type	标准型、延时型 Standard type, delay type	标准型、延时型 Standard type, delay type
额定短路分断能力 Rated short-circuit breaking capacity I_{cn}	6KA/10KA	6KA/10KA	6KA/10KA
额定运行分断能力 Rated operating breaking capacity I_{cs}	6KA/10KA	6KA/10KA	6KA/10KA
额定冲击耐受电压 Rated impulse withstand voltage	6KA	6KA	6KA
瞬时脱扣类型 Instantaneous tripping type	B、C、D	B、C、D	B、C、D
连接外部导线的接线端子温升 Temperature rise of terminal connecting external wires	$\leq 60K$	$\leq 60K$	$\leq 60K$
机械寿命 Mechanical life	20000次times	20000次times	20000次times
电气寿命 Electrical life	10000次time	10000次times	10000次times
防护等级 Degree of protection	P20	P20	P20
接线螺丝扭力 Wiring screw torque	$\leq 4Nm$	$\leq 4Nm$	$\leq 4Nm$
功耗 Power waste	$\leq 1.8W$	$\leq 1.8W$	$\leq 1.8W$

接线图 Wiring diagram



WILLCB 产品尺寸图 WILLCB Product Dimension Drawing





Intelligent Cloud Gateway

智能云网关

产品描述 Product Description

智能云网关可以为智慧物联网断路器提供联网双向数据通讯服务，将智慧物联网断路器监测的实时用电数据（电压、电流、功率、电量、温度、漏电等）上传到云端，方便PC端及APP端实时查看与管理，并将每一条普通电路实现网络化、数字化、可视化、远程化，汇总成为一个强大的能耗管理网络。

The intelligent cloud gateway can provide networking two-way data communication services for intelligent IOT circuit breaker, upload real-time power consumption data (voltage, current, power, electricity, temperature, leakage, etc.) monitored by intelligent IOT circuit breaker to the cloud, facilitate real-time viewing and management at PC and APP terminals, and realize networking, digitization, visualization, and remoteness for each common circuit, which will be summarized into a powerful energy consumption management network.

产品特点 Product features

设备自组网：智能云网关设备联网后，与其连接的所有智慧物联网断路器均为问答式访问上线，连接后在PC端及APP中全部体现出来，安装调试简单快速；

自主网络：当网络信号不良导致智能云网关断网后，智能云网关会自主刷新网络尝试重新连接网络；

供电方式：内置电源，不依赖外接电源模块，更加节省安装空间；

掉电遗嘱：当智能云网关意外断电时，产品会自动存储数据，待重新上电后，将所有数据再次上传到云端。

Equipment ad hoc network: after the intelligent cloud gateway equipment is connected to the network, all intelligent Internet of Things circuit breakers connected to it are online through question and answer access, which are all reflected in the PC end and APP after connection, and the installation and debugging are simple and fast;

Autonomous network: when the intelligent cloud network is shut down due to poor network signal, the intelligent cloud gateway will refresh the network independently and try to reconnect to the network;

Power supply mode: built-in power supply, independent of external power module, saving installation space;

Power failure will: When the intelligent cloud gateway is accidentally powered off, the product will automatically store data, and upload all data to the cloud again after power on.

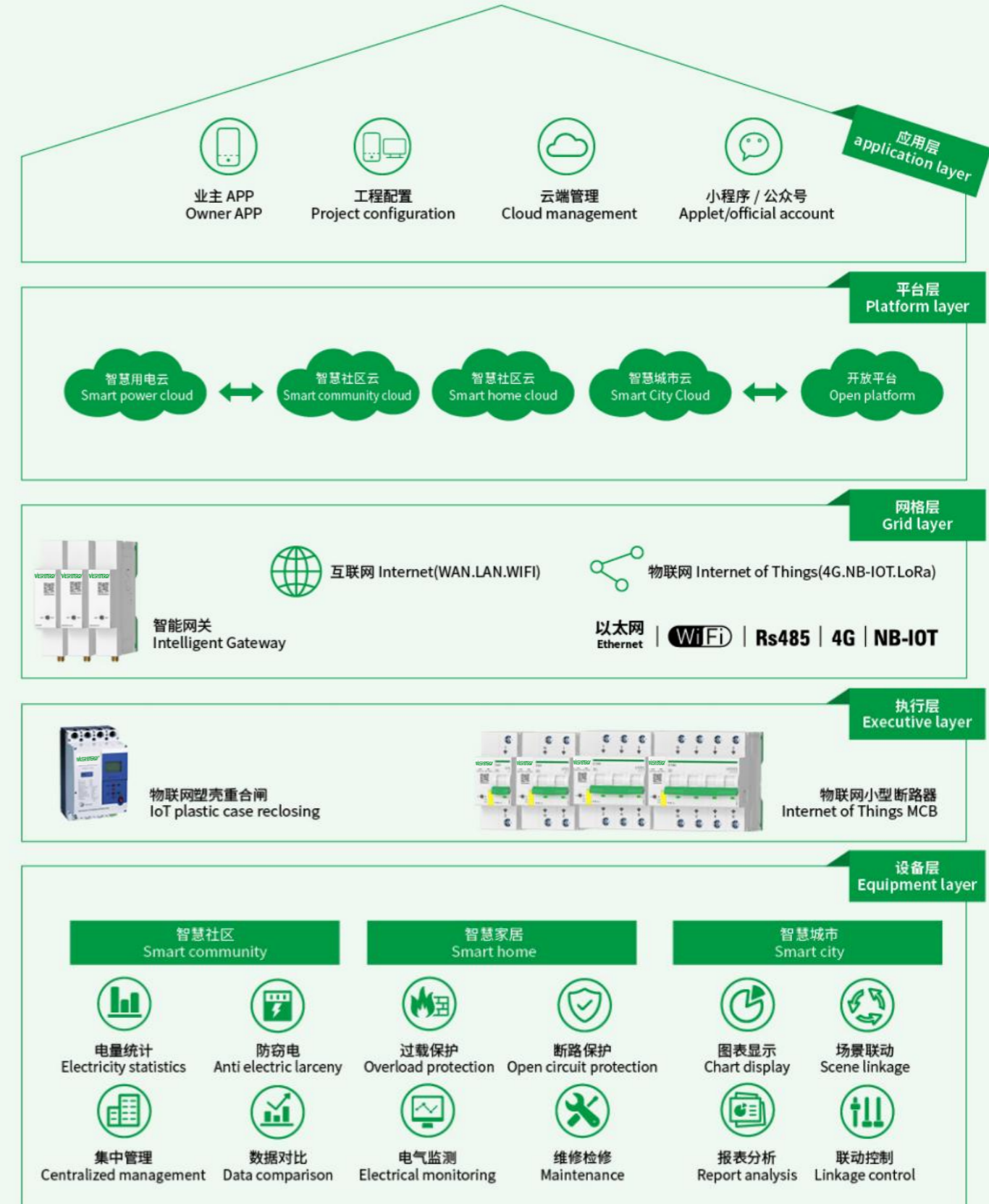
技术参数 Technical parameter

额定输入电压 Rated input voltage	AC230V
联网方式 Networking mode	4G、WiFi、以太网 Ethernet
通讯方式 Communication mode	RS485 (下行至断路器 down to circuit breaker)
占用空间 Space occupied	1P
环境温度 Ambient temperature	-25°C至+70°C
空气相对湿度 Relative air humidity	≤95%
海拔 Altitude	≤2000m
功耗 Power waste	≤1.8W
安装类型 Installation type	标准导轨 Standard guide rail DIN 35mm

系统组网示意图 System Networking Diagram

物联网断路器系统主要由智慧物联网断路器云平台小程序、智能网关、物联网断路器组成。

The IOT circuit breaker system is mainly composed of smart IOT circuit breaker cloud platform applet, smart gateway and IOT circuit breaker.



Platform

introduction

平台介绍

威尔勒智慧用电数据平台专注为各个物联网行业提供更好的解决方案，平台设定多重架构，为管理者提供多级管理权限，集中控制与分区控制相结合，提高管理效能。PC端智慧用电数据平台除了包含APP端功能外，主要包含了4大功能模块：安全用电、智慧用电、能源管控、运维管理

Willer Smart Power Data Platform focuses on providing better solutions for various Internet of Things industries. The platform sets up multiple architectures, provides managers with multi-level management authority, and combines centralized control with zonal control to improve management efficiency. In addition to the APP function, the PC smart power data platform mainly includes four functional modules: safe power use, smart power use, energy management and control, and operation and maintenance management



安全用电 Safe use of electricity

安全用电模块主要对设备或线路故障进行实时监控并对报警数据进行分析，对于用电异常具有监测、预警以及自处理机制，确保用电安全。

The safe power use module mainly monitors equipment or line faults in real time and analyzes alarm data. It has monitoring, early warning and self-processing mechanisms for abnormal power use to ensure safe power use.

能源管理 Energy management

智慧用电管理平台可以有效的针对项目中线路的电压、电流等实时数据和电量数据做出统计与对比分析，为精益管理做出参考依据。

The smart power management platform can effectively make statistics and comparative analysis on the real-time data such as voltage and current of the lines and electricity data in the project, and provide a reference for lean management.

智慧用电 Smart electricity

智慧用电板块主要包含了对于设备的监控与智慧用电设定可对设备进行各种参数修改设定，支持对设备进行多种控制方式以及使用场景，让用户的体验更好。

The smart electricity section mainly includes the monitoring and smart electricity settings for the equipment. It can modify and set various parameters of the equipment, support multiple control methods and use scenarios for the equipment, and make the user experience better.

运维管理 Mocha ITOM

智慧用电管理平台与APP可以有效针对设备做出安全监控，并做到线上监控，线下运维，提前发现，及时处理，为电力运维提供可靠保障。

The smart power management platform and APP can effectively monitor the safety of equipment, and achieve online monitoring offline operation and maintenance, early detection and timely treatment, providing reliable guarantee for power operation and maintenance.

Platform

is divided into three hierarchies

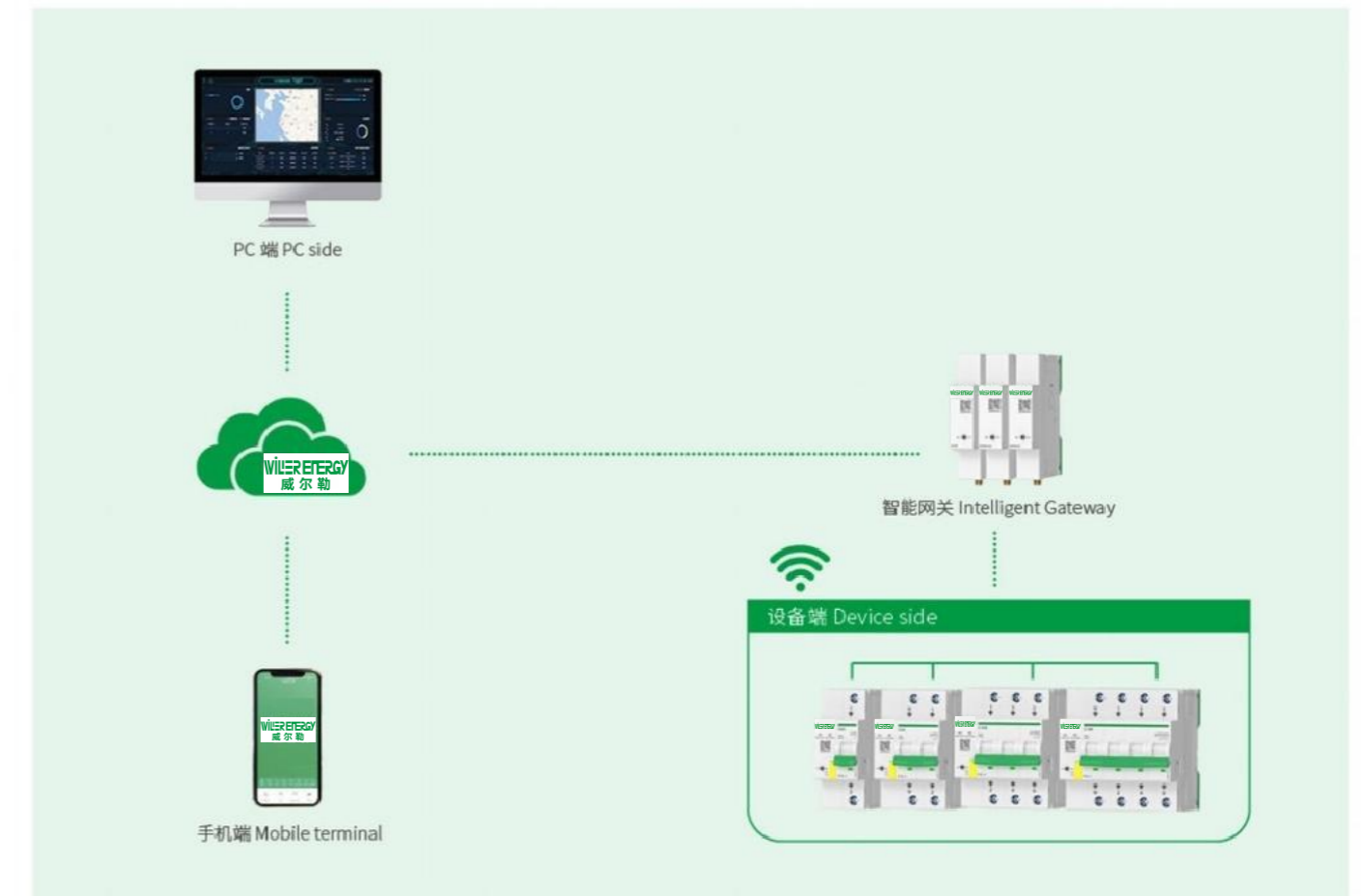
平台分为三大层级架构

- ◎超级管理员平台可对所有数据进行监控和分析；
- ◎城市运营中心平台可对本区域接入设备进行数据的监控和报警的处理以及本区域项目的管控；
- ◎物业项目平台是对本项目设备数据分析，安全监管、智慧管理。
- ◎The super administrator platform can monitor and analyze all data;
- ◎The urban operation center platform can monitor and alarm the access equipment in the region and control the projects in the region;
- ◎The property project platform is used for equipment data analysis, safety supervision and intelligent management of the project.

三端同步 Three terminal synchronization

手机端、PC端，设备端实现状态同步显示，一切尽收眼底！
24小时移动守护助手，智慧运维数据平台。

The mobile terminal, PC terminal and device terminal can realize synchronous display of status, and you can see everything!
24-hour mobile guardian assistant, intelligent operation and maintenance data platform.



Application scenario

应用场景

智慧安全用电管理系统应用广泛，如下范围：

Willer's smart and safe power management system is widely used, such as the following:



智慧校园

Smart Campus

实时监测每个宿舍的功率，一旦超过设定的功率会自动断电，保护用电安全，避免大功率电器使用造成安全隐患，私接电路造成短路甚至更严重的宿舍火灾。通过智慧用电管理平台，每个宿舍的用电数据直接上传到管理平台，实现远程抄表、远程费控和负载识别。

The power of each dormitory is monitored in real time. Once the set power is exceeded, the power will be cut off automatically to protect the safety of electricity use, avoid potential safety hazards caused by the use of high-power electrical appliances, and short circuit or even more serious dormitory fire caused by private circuit. Through the intelligent power management platform, the power data of each dormitory is directly uploaded to the management platform to achieve remote meter reading, remote cost control and load identification.



交通运维

Transportation operation and maintenance

场所特点：

供电连续性要求高，但容易因雷击、漏电、浪涌等造成开关跳闸，中断电路。

产品功能应用：

利用自动重合闸功能，对故障类型进行分析，选择性重合闸，及时恢复供电。

Site characteristics: The continuity of power supply is high, but it is easy to trip the switch and interrupt the circuit due to lightning, leakage, surge, etc.

Product function application: The automatic reclosing function is used to analyze the fault type selectively reclose and restore power supply in time.



信息通讯

Information communication

场所特点：

供电连续性要求高，维护困难

产品功能应用：

- 1、利用自动重合闸功能，及时恢复供电。
- 2、利用远程控制功能结合多种通讯方式对设备进行远程控制，反馈故障类型、用电状况等信息。

Site characteristics: High continuity of power supply and difficult maintenance

Product function application:

1. Restore power supply in time by using the automatic reclosing function.
2. The remote control function is used in combination with various communication modes to remotely control the equipment and feed back the fault type, power consumption and other information.



新能源充电桩

New energy charging pile

对充电桩提供短路、漏电保护、过欠压保护，对充电有功功率、无功功率、电流、电压进行计量，直接输出用于计费，当充电桩出现故障断电时，对故障类型进行分析，选择性重合闸，及时恢复供电。

利用通讯，可实现区域充电桩远程控制，信息采集，集中管理。

目前推广家用交流充电桩，漏电型号 A 型

Provide short circuit, leakage protection, overvoltage and undervoltage protection for the charging pile, measure the charging active power, reactive power, current and voltage, and directly output them for billing. When the charging pile fails to power off, analyze the fault type, selectively reclose, and timely restore power supply.

By using communication, remote control, information collection and centralized management of regional charging pile can be realized.

At present, the household AC charging pile is promoted, and the leakage model is Type A



智慧银行系统

Smart banking system

24小时不间断设备：只监不控

非24小时供电设备：一键手动

固定时间用电设备：自定义时段 自动开关

预警联动：在出现线路故障或超过预警值时，对安防和消防进行联动。

24-hour uninterrupted equipment: only monitoring but not controlling

Non 24-hour power supply equipment: one button manual

Fixed time electric equipment: self defined time interval automatic switch

Early warning linkage: in case of line failure or exceeding the early warning value, the security and fire protection shall be linked.



多合一场所

All in one place (宿舍、古建筑、医院、养老院、物业、写字楼、酒店、农业)
(Dormitory, ancient building, hospital, nursing home, property, office building, hotel, agriculture)

违规使用热得快、电磁炉、电暖器等大功率电器；智慧物联网断路器进行功率和电流限定、负载类型限定

线路繁杂、存在私拉乱接现象，造成漏电触电意外伤亡；智慧物联网断路器实时漏电监控，漏电多方案自检，带来可靠保护

Illegal use of high-power appliances such as fast heating, induction cooker and electric heater;

Power and current limitation and load type limitation of intelligent IOT circuit breaker

The lines are complex, and there is a phenomenon of private pulling and random connection, which causes electric leakage and electric shock accidents;

Real time leakage monitoring of intelligent Internet of Things circuit breakers and multiple self inspection schemes of leakage bring reliable protection



WILER ENERGY
威尔勒

用科技带动高效生产

质量为先 · 创造 · 创新

**Use science and technology
to drive efficient production**

Quality first, Creation, innovation

千亿条信息交织绵延，数字化远程昼夜坚守，我们借助“慧眼”，聚焦电气产品生命周期管理，为电力输出提供保障。从前期调研到方案制定再到产品试制，我们一遍遍修改磨合，一次次调试验证，凭借对工作始终如一的严谨缜密，化繁为简，将图纸变成了现实。

Hundreds of millions of pieces of information are interwoven and continuous, and digital remote stick to it day and night. With the help of "Discerning eye", we focus on the life cycle management of electrical products to provide guarantee for power output. From preliminary investigation to plan formulation and product trial production, we modified and ran in, tested and verified again and again. With consistent rigorous and meticulous work, we transformed the complex into simple drawings into reality.

