

电能表制造专家

产品选型手册
PRODUCT SELECTION GUIDE



MeterPro
迈 鸿 电 表

MeterPro
迈 鸿 电 表

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关于迈鸿 | About Us

迈鸿电气科技有限公司是一家集研发、生产、销售于一体的企业，公司始建于2006年，在总经理叶龙先生的带领下，组建了一支以贴牌生产为主的专业团队。经过多年的诚信经营，公司以高品质的产品及专业的服务赢得业内人士的高度评价及稳定的客户群体。随着公司的逐步壮大，为了能够更好的服务于广大客户，推出自有品牌及开展对外贸易业务，公司于2015年正式申请并注册成为温州迈鸿电气科技有限公司。公司不但有自营进出口权，还有一支年轻化、专业化的科研团队。公司专注于研发生产单三相机械式电能表、单相电子式电能表、单相电子式预付费电能表、单相多费率电能表、智能电能表、数显表等，还可以根据客户要求提供定制产品、OEM/ODM等服务。

企业自创办以来，就实施高起点高质量高水平的“三高”战略，公司不断引进国内外的高端生产与检测设备、以完善的科学管理体系、造就了高端的品质，公司将始终以“以质量求生存、以科技求发展、坚持用户第一、信誉第一”的经营方针和“以人为本”的立业宗旨，铸就你和迈鸿人的共同辉煌。

竭诚欢迎国内外有识之士与迈鸿人携手并进、共同发展、共促建业之大成。

Wenzhou Maihong Electric Technology Co., Ltd. is a diversified enterprise integrates development design, production and marketing together. Since the year of 2006, under the leadership of general manager Mr. Ye Long, we become an OEM-based professional team. After many years accumulation in business, the company win a high evaluation in this field and gain a lot loyal customers with it's high-quality products and professional services. With the company's growing, in order to provide better service to our customers, found our own brand and extend foreign trade business, we formally registered and incorporated in 2015, and also got import & export license. We focus on R&D and manufacturing high quality products like single and three phase energy meter with mechanical and electronic, prepayment electronic meter, multi-tariff meter, smart meters, digital power meters, etc. We also provide ODM and OEM service according to customer's requirements. By now, our products have been exported to Central Asia, Southeast Asia, Arab, Africa, Russia, etc.

Since established, we inheriting the "three-high" strategy of high starting, high quality and high level, we continuously absorb the advanced production technology and testing equipment to make the high-quality products with the help of reasonable and complete management system. We insist on the tenet of "Survival by quality, development by technology, customer first and reputation first, people-oriented". Let's create a brilliant future together with our diligence and intelligence.

We are looking forward to good cooperation with partners at local and abroad to create a glorious future.

CERTIFICATION



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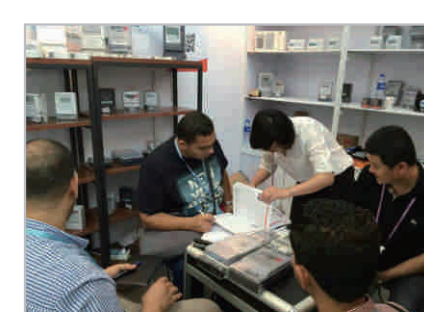
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工厂参观\ Factory visit



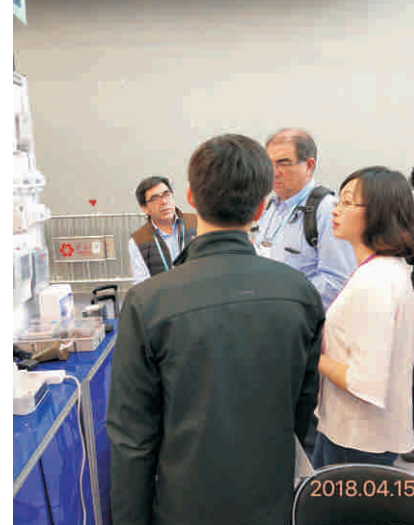
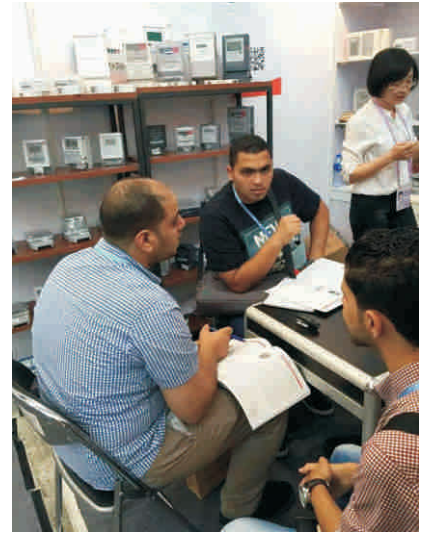
外贸展会\ Global exhibition



工厂参观\ Factory visit



外贸展会\ Global exhibition



工厂参观\ Factory visit



外贸展会\ Global exhibition



工厂参观\ Factory visit



外贸展会\ Global exhibition





智能电表介绍\ Introduction of smart energy meter

智能电表是智能电网的智能终端，它已经不是传统意义上的电能表，智能电表除了具备传统电能表基本用电量的计量功能以外，为了适应智能电网和新能源的使用它还具有双向多种费率计量功能、用户端控制功能、多种数据传输模式的双向数据通信功能、防窃电功能等智能化的功能，智能电表代表着未来节能型智能电网最终用户智能化终端的发展方向。

Smart meter is the smart terminal of smart grid. It is no longer the traditional energy meter. In addition to the basic energy consumption measurement function of traditional energy meter, smart meter also has two-way multi-rate measurement function, user control function, two-way data communication function of various data transmission modes and anti-stealing power in order to adapt to the use of smart grid and new energy. Intelligent functions such as energy, smart meters represent the development direction of intelligent terminals for end users of energy-saving smart grid in the future.

智能电表有：

多费率电能表\ Multi-rate energy meter

远程费控电能表\ Remote charge control energy meter

多功能电能表\ Multi-function energy meter



多费率电表介绍\ Introduction of multi-rate energy meter

型号\ Model

DDSF-121 单相多费率电能表\ Single phase multi-rate energy meter

DTSF-121 三相多费率电能表\ Three phase multi-rate energy meter

介绍\ Introduction

多费率、复费率电能表是在普通电子式电能表的基础上增加了微处理器，增加时钟芯片、数码管显示器或液晶显示器、通信接口电路等构成的。它根据设置的时段参数对电能进行分时计量，并将其显示出来，同时能通过数据通信接口传输数据。它可按照客户需求选配分时计费功能。

The multi-rate energy meter is composed of a microprocessor, a clock chip, a digital tube display or a liquid crystal display, a communication interface circuit, etc. on the basis of the ordinary electronic energy meter. According to the set time parameters, it can measure the power time-sharing and display it. At the same time, it can transmit data through the data communication interface. It can select and distribute the charging function according to the customer's demand.

功能特点\ Function

- 1.四种费率（尖，峰，平，谷），十个时段，时段最小时间间隔5分钟。存储包括本月在内的12个月的各费率电能数据；
 - 2.电气隔离采用先进的电能计量芯片，高性能CPU和RTC时钟芯片；
 - 3.记录当前有功总电量及各费率电量，并保存数据；
 - 4.高精度，高可靠，过载能力强，低功耗，重量轻；自动累计记录电池工作时间；
 - 5.轮显当前时间，费率，总电量及各费率电量；通信规约符合DL/T645-1997；
 - 6.具有脉冲输入，脉宽80ms+20ms；具有写数据时采用密码和编程开关两级保护，自动记录最后编程时间和次数；
 - 7.可设置表号，局号，时段，费率，日期，时间，自动抄表日，密码，循环显示项及起始电量；
- 1.Four tariffs (sharp, peak, flat, valley), 10 periods, minimum time interval of 5 minutes. storage including this month, 12 months of tariff power data;
 - 2.Electrical isolation adopts advanced energy metering chip, high performance CPU and RTC clock chip.
 - 3.Record the current total active power and each rate of electricity, and save the data;
 - 4.High precision, high reliability, strong overload capacity, low power consumption, light weight; automatic accumulative recording of battery working time;
 - 5.Rotate display current time, rate, total power and rate power; communication protocol conforms to DL/T645-1997;
 - 6.It has pulse input with pulse width of 80ms + 20ms, password protection and programming switch protection when writing data, and automatically records the last programming time and times.
 - 7.The meter number, office number, time period, rate, date, time, automatic meter reading date, password, cyclic display item and starting power can be set.

DDSF-121

单相多费率电能表
Single phase multi-rate energy meter

红外通讯
Infrared Comm

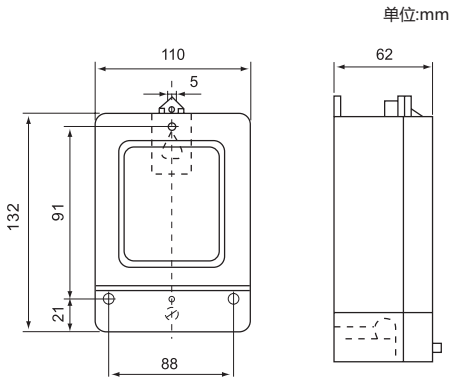
RS485通讯
RS485 COMM

数据监测
Data monitoring

多费率计量
Multi-rate measurement

产品参数\ Product parameters

型号\Model	DDSF-121
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTSF-121

三相多费率电能表\ Three phase multi-rate energy meter

红外通讯
Infrared Comm

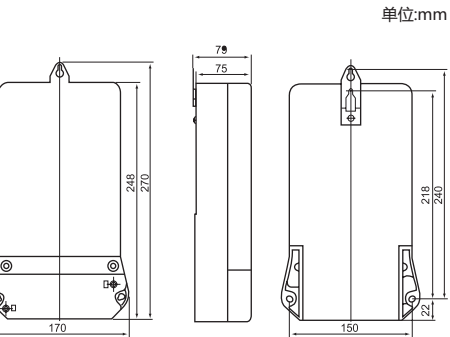
RS485通讯
RS485 COMM

数据监测
Data monitoring

多费率计量
Multi-rate measurement

产品参数\ Product parameters

型号\Model	DTSF-121
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



远程费控电表介绍\ Introduction of remote charge control energy meter

型号\Model

DDZY-121 单相远程费控电能表\ Single phase remote charge control energy meter
DTZY-121 三相远程费控电能表\ Three phase remote charge control energy meter

介绍\ Introduction

远程费控智能电能表具备执行分时或阶梯计费功能，适用于通过载波/微功率无线组网进行远程抄表、远程费控的居民用户。
The remote fee-controlled smart energy meter has the function of time-sharing or step-by-step billing. It is suitable for resident users who can read and control the meter remotely through carrier/micropower wireless network.

功能特点\Function

- 1.分时计量计费功能：支持尖、峰、平、谷四个费率，全年可设置2个年时区，24小时内至少可以设置14个时段
- 2.结算功能：一个月最多可设置3个结算点进行结算，最大可记录最近12次结算的历史数据。
- 3.测量功能：能测量电压、电流（包含零线），有功功率以及功率因数等电网参数。
- 4.事件记录功能：具有记录编程、开上盖、掉电、校时、跳闸等事件发生的时刻以及事件发生时电能表状态；具有冻结和报警功能。
- 5.费控功能：电能表不带IC卡口，支持通信 远程拉合闸。
1. Time-sharing metering and billing function: supporting four rates: peak, peak, flat and valley. It can set two year time zones in a year and at least 14 time periods in 24 hours.
2. Settlement function: 3 settlement points can be set up in a month to settle accounts, and the historical data of the latest 12 settlements can be recorded.
3. Measuring function: It can measure voltage, current (including zero line), active power and power factor.
4. Event recording function: It has the functions of recording programming, opening the cover, power-off, timing, tripping and other events, as well as the state of electric energy meter when the event occurs; it has the functions of freezing and alarming.
5. Fee-control function: The meter does not have IC card, and supports remote switching-on and switching-on of communication.

DDZY-121

单相远程费控电能表
Single phase remote charge control energy meter

红外通讯
Infrared Comm

RS485通讯
RS485 COMM

双向计量
Bi-direction

停电抄表
Power failure metering

远程控制
Remote control

事件记录
Event log

多费率计量
Multi-rate measurement

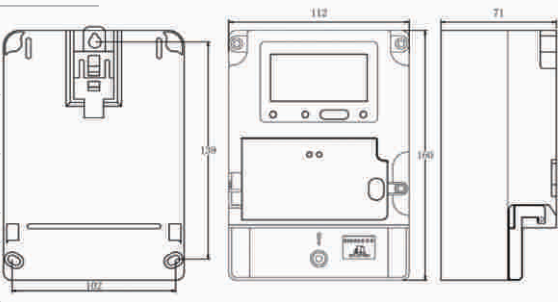
数据监测
Data monitoring

产品参数 Product parameters

型号Model	DDZY-121
参比电压Reference voltage	220V
工作电压范围Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度Relative humidity	≤95%(无凝露no condensation)
频率Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗Static power consumption	<1.5W, 10VA



单位:mm



DTZY-121

三相远程费控电能表
Three phase remote charge control energy meter

红外通讯
Infrared Comm

RS485通讯
RS485 COMM

双向计量
Bi-direction

停电抄表
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多费率计量
Multi-rate measurement

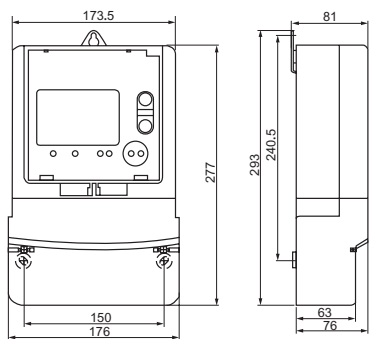
数据监测
Data monitoring

产品参数 Product parameters

型号Model	DTZY-121
参比电压Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
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工作温度Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度Relative humidity	≤95%(无凝露no condensation)
频率Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗Static Power Consumption	<1.5W, 10VA



单位:mm



DTSD-121

三相多功能电能表
Three phase multi-function energy meter

红外通讯
Infrared Comm

RS485通讯
RS485 COMM

双向计量
Bi-direction

停电抄表
Power failure metering

数据监测
Data monitoring

事件记录
Event log

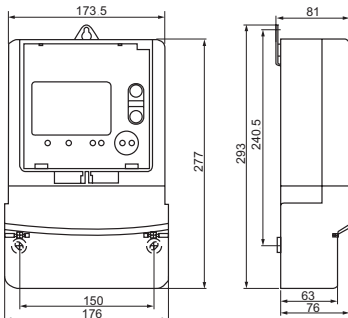
多费率计量
Multi-rate measurement

产品参数 Product parameters

型号Model	DTSD-121
参比电压Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
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相对湿度Relative humidity	≤95%(无凝露no condensation)
频率Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗Static Power Consumption	<1.5W, 10VA



单位:mm



介绍 Introduction

多功能电能表是指除计量有功(无功)外还具有分时、测量需量等两种以上的功能，并能显示，存储和输出数据的电能表。
Multifunctional energy meter is a kind of energy meter which not only measures active power (reactive power), but also has two or more functions, such as time periods measurement, demand measurement. Also it can display and store the output data.

功能特点 Function

- 电能计量功能；
- 事件包记录功能：电表具有事件包滚动记录功能，可记录停电、来电、失压、失流、断相、过压、过流、参数设置、需量清零等事件及其发生时间。
- 记录停电次数、停电时间（即电池工作时间）和电表运行时间；
- 记录并显示当前瞬时功率、电压、电流、功率因数及频率；
- 可记录电表当前1分钟有功平均功率和当前1分钟无功平均功率；
- 电压/电流变比：可读，可设置，但不参与运算；
- 电能冻结功能；时区结束正向有功电能冻结功能；
- 负荷代表日整点有功电能记录；停电唤醒功能、多功能检测输出口功能；
- 独立的双485通讯接口和红外通讯口；背光功能开盖记录功能。
- Electric energy metering function;
- Event Packet Recording Function: The ammeter has the rolling recording function of event pack. It can record power outage, incoming calls, voltage loss, current loss, phase break, over-voltage, over-current, parameter setting, demand clearing and other events and their occurrence time.
- Record the number of blackouts, blackouts (i.e. battery working time) and meter running time.
- Record and display the current instantaneous power, voltage, current, power factor and frequency.
- The average active power and reactive power of the current 1 minute of the ammeter can be recorded.
- Voltage/electrorheological ratio: readable, settable, but not involved in calculation;
- Electric energy freezing function; Time zone end positive active power freezing function;
- Load represents daily active power recording; power outage wake-up function, multi-function detection output function;
- Independent dual 485 communication interface and infrared communication interface; backlight function open-cover recording function.



电子式电能表介绍\ Introduction of electronic energy meter

型号\ Model

DDS-121L, DTS-121L 电子式电能表\ electronic energy meter

DDS-121H, DTS-121H 电子式电能表\ electronic energy meter

DDS-121T, DTS-121T 电子式电能表\ electronic energy meter

DDS-121G, DTS-121G 电子式电能表\ electronic energy meter

DDS-121R, DTS-121R 电子式电能表\ electronic energy meter

DDS-121M 电子式电能表\ electronic energy meter

介绍\ Introduction

电子式有功电能表系我公司采用微电子技术及专用大规模集成电路，应用数字采样处理技术及 SMT 工艺等先进技术研制开发的有功电能表。该表技术性能符合 IEC62052-11 和 IEC62053-21 标准中有功电能表的相关技术要求，能准确地测量额定频率为 50Hz 或 60Hz 交流电网中负荷的有功电能的消耗，供安装于室内或室外表箱中使用。

Electronic active energy meter is an active energy meter developed by our company using microelectronics technology and special large-scale integrated circuit, digital sampling processing technology and SMT technology. The technical performance of the meter meets the relevant technical requirements of the active energy meter in IEC62052-11 and IEC62053-21 standards. It can accurately measure the consumption of the active energy in the rated frequency of 50 Hz or 60 Hz AC power network load for installation in indoor or outdoor surface boxes.

功能特点\ Function

1. 温度特性好，-25℃至 55℃温度范围内误差不超过精度范围；
2. 轻载特性好，仪表在极低负载时工作具有良好的准确度等级；
3. 实际在线计量准确度高；可靠性高，长寿命；
4. 安装操作简便，安装位置不受影响；
5. 过载能力强，仪表在准确度等级范围内的过载能力可达 6 倍以上；
6. 抗运输能力强，仪表在各种正常运输条件下不会引起误差变化，用户开箱后可无须调整。

1. The temperature characteristic is good, and the error in the temperature range from - 25 C to 55 C does not exceed the precision range.
2. It has good light-load characteristics and good accuracy level when the instrument works under very low load.
3. Actual on-line measurement has high accuracy, high reliability and long life.
4. Installation operation is simple, installation position is not affected;
5. Strong overload ability, the overload ability of the instrument in the range of accuracy grade can be more than 6 times;
6. It has strong anti-transportation capability. The instrument will not cause error changes under various normal transportation conditions. Users need not adjust after opening the box.

DDS-121L

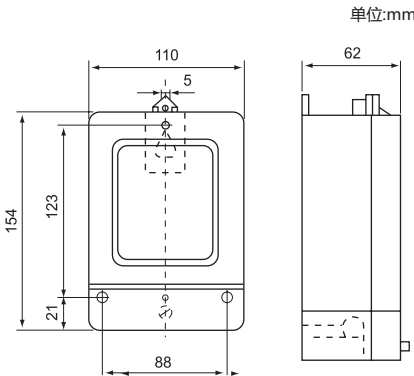
单相电子式电能表\

Single phase electronic energy meter



产品参数\ Product parameters

型号\ Model	DDS-121L
参比电压\ Reference voltage	220V
工作电压范围\ Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\ Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A, 5(20)A, 10(40)A, 15(60)A, 20(80)A, 30(100)A
准确度等级\ Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\ Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\ Relative humidity	≤95%(无凝露no condensation)
频率\ Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\ Static Power Consumption	<1.5W, 10VA



DTS-121L

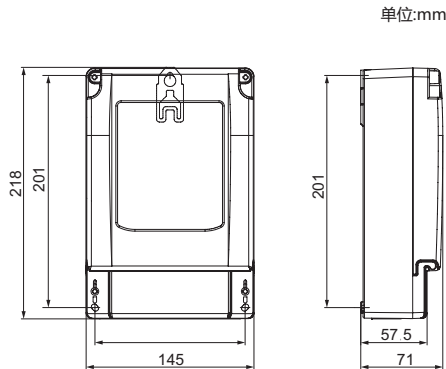
三相电子式电能表\

Three phase electronic energy meter



产品参数\ Product parameters

型号\ Model	DTS-121L
参比电压\ Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\ Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\ Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A, 5(20)A, 10(40)A, 15(60)A, 20(80)A, 30(100)A
准确度等级\ Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\ Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\ Relative humidity	≤95%(无凝露no condensation)
频率\ Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\ Static Power Consumption	<1.5W, 10VA



DDS-121H

单相电子式电能表\Single phase electronic energy meter

SMT工艺
High efficiency

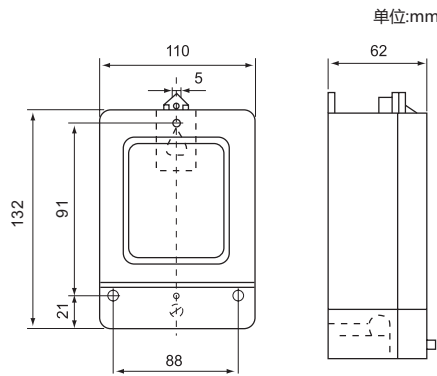
安装简单
Easy installation

出厂检验
100% calibration



产品参数\ Product parameters

型号\Model	DDS-121H
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTS-121H

三相电子式电能表\Three phase electronic energy meter

SMT工艺
High efficiency

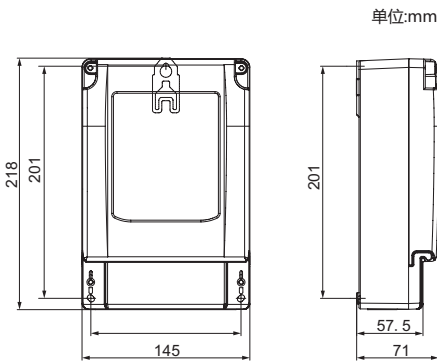
安装简单
Easy installation

出厂检验
100% calibration



产品参数\ Product parameters

型号\Model	DTS-121H
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDS-121T

单相电子式电能表\Single phase electronic energy meter

SMT工艺
High efficiency

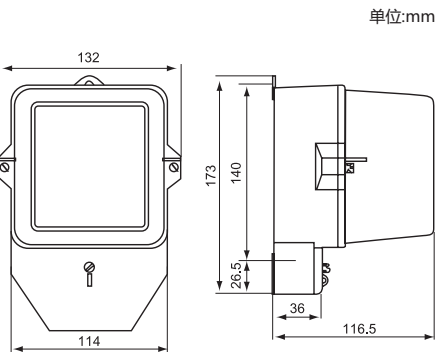
安装简单
Easy installation

出厂检验
100% calibration



产品参数\ Product parameters

型号\Model	DDS-121T
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTS-121T

三相电子式电能表\Three phase electronic energy meter

SMT工艺
High efficiency

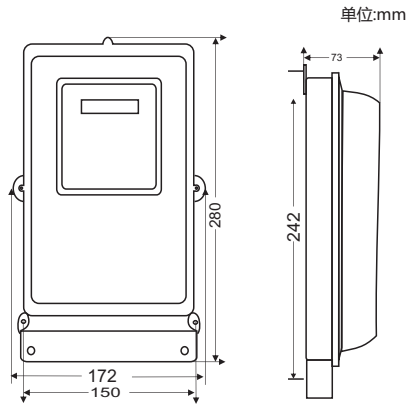
安装简单
Easy installation

出厂检验
100% calibration



产品参数\ Product parameters

型号\Model	DTS-121T
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDS-121G

单相电子式电能表\Single phase electronic energy meter

SMT工艺
High efficiency

安装简单
Easy installation

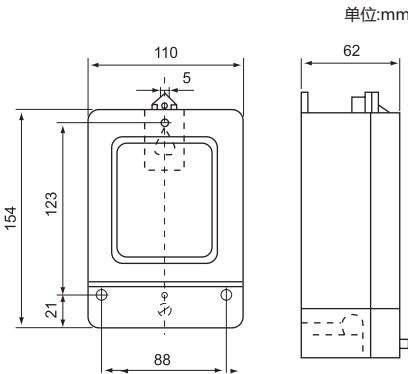
出厂检验
100% calibration

RS485通讯
RS485 COMM optional



产品参数\ Product parameters

型号\Model	DDS-121G
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTS-121G

三相电子式电能表\Three phase electronic energy meter

SMT工艺
High efficiency

安装简单
Easy installation

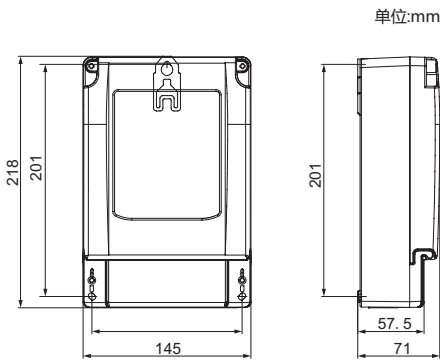
出厂检验
100% calibration

RS485通讯
RS485 COMM optional



产品参数\ Product parameters

型号\Model	DTS-121G
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDS-121R

单相电子式电能表\Electronic energy meter

SMT工艺
High efficiency

安装简单
Easy installation

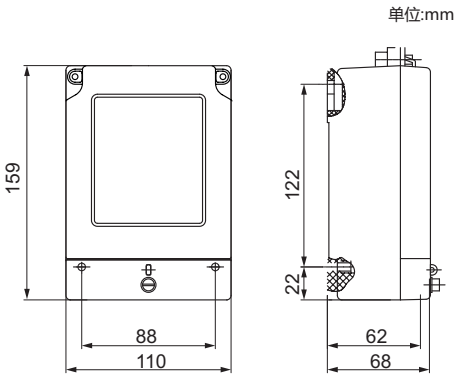
出厂检验
100% calibration

RS485通讯
RS485 COMM optional



产品参数\ Product parameters

型号\Model	DDS-121R
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTS-121R

三相电子式电能表\Electronic energy meter

SMT工艺
High efficiency

安装简单
Easy installation

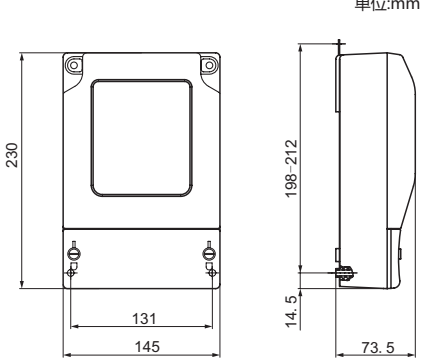
出厂检验
100% calibration

RS485通讯
RS485 COMM optional



产品参数\ Product parameters

型号\Model	DTS-121R
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDS-121M
单相电子式电能表\ Electronic energy meter

SMT工艺
High efficiency

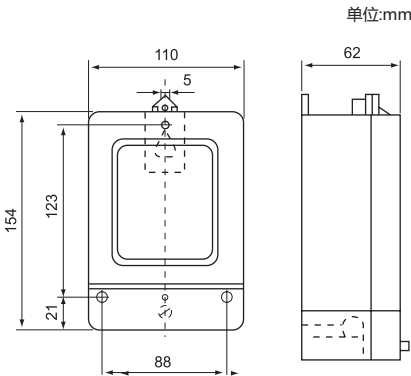
阻燃
Flame retardant

防水
Waterproof



产品参数\ Product parameters

型号\Model	DDS-121M
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



预付费电表介绍\ Introduction of prepaid energy meter

型号\Model

- DDSY-121, DTSY-121 预付费电能表\ Prepaid energy meter
- DDSY-121W, DTSY-121W Wifi预付费电能表\ Wifi prepaid energy meter
- DDSY-121P, DTSY-121P 射频卡预付费电能表\ Prepaid energy meter with RFID card
- MHSB-121一卡通预付费智能水表(IC卡)\ Smart prepaid water meter with unit card (IC card)
- DDSY-121D/4P导轨式预付费电能表\ Din-railprepaid energy meter
- DDSY-121D/7P导轨式预付费电能表\ Din-railprepaid energy meter

介绍\Introduction

预付费电表又叫做定量电能表，除了具有普通电能表的计量功能外，特别的是用户先买电，买电后才能用电，若用完电后用户不继续买电，则自动切断电源停止供电。
Prepaid energy meter is also called quantitative energy meter. In addition to the metering function of ordinary energy meter, it is particularly important for users to buy electricity before they can use it. If users do not continue to buy electricity after using it, they will automatically cut off the power supply and stop the power supply.

功能特点\Function

- 购电量使用完毕自动断电
- 负荷控制可选择，超负荷延时断电
- 剩余电量不足报警，提醒用户及时购电
- 液晶屏轮显用电信息，方便用户查看
- 液晶屏幕同时显示累计电量和剩余电量清晰、直观

IC卡表:

- ISO标准IC卡采用特殊数据动态加密算法，安全可靠，一表一卡
- 大容量抄表卡，抄表到位、准确
- 购电卡自动抄回用电信息，方便管理，核对用户信息
- 专用设置卡、换表卡，方便管理部登记、维护

射频卡表:

- 射频卡采用无线通讯技术，通过射频卡在管理系统和电表间传送数据。射频卡经多重加密，安全可靠，使用方便。
- 采用非接触射频卡，表壳全封闭，不会出现IC卡座易受攻击的问题。

- Automatic power cut-off after power purchase
- Load control is optional, overload delayed power failure
- Remaining power insufficient alarm to remind users to buy electricity in time
- LCD Wheel Display Power Consumption Information for Users to View

For meter with IC card:

- LCD screen shows accumulative and residual electricity clearly and intuitively at the same time.
- ISO standard IC card adopts special data dynamic encryption algorithm, which is safe and reliable, one table and one card.
- Large capacity meter reading card, meter reading in place and accurate
- Automatically copy back the information of power consumption by purchasing power card, which is convenient for management and checking the information of users.
- Special setting cards and form exchange cards to facilitate the registration and maintenance of the administrative department

For meter with RFID card:

- Radio frequency card uses wireless communication technology to transmit data between management system and meter through radio frequency card. The RF card is multi-encrypted, safe and reliable, and easy to use.
- With contactless RF card, the meter case is completely closed, and the IC card holder will not be vulnerable to attack.

DDSY-121
单相预付费电能表\

Single phase prepaid energy meter

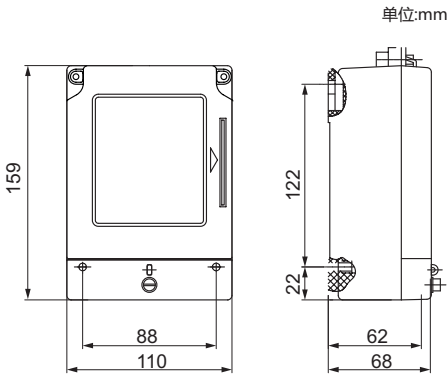
SMT工艺
High efficiency

一表一卡
One meter one card

一表多卡
One meter more cards

产品参数\ Product parameters

型号\Model	DDSY-121
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTSY-121
三相预付费电能表\

Three phase prepaid energy meter

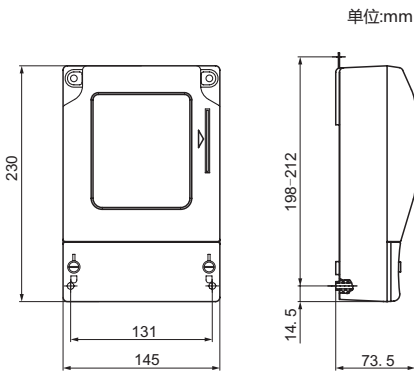
SMT工艺
High efficiency

一表一卡
One meter one card

一表多卡
One meter more cards

产品参数\ Product parameters

型号\Model	DTSY-121
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDSY-121W
单相wifi预付费电能表\

Single phase Wifi prepaid energy meter

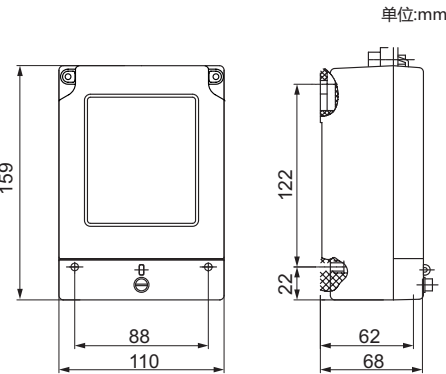
SMT工艺
High efficiency

一表一卡
One meter one card

一表多卡
One meter more cards

产品参数\ Product parameters

型号\Model	DDSY-121W
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTSY-121W
三相wifi预付费电能表\

Three phase Wifi prepaid energy meter

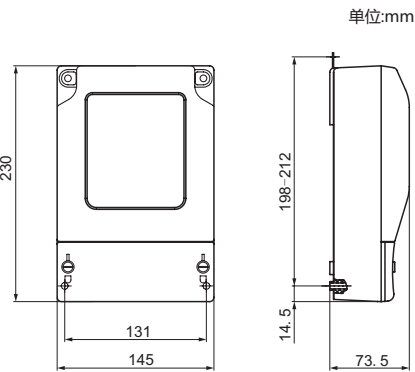
SMT工艺
High efficiency

一表一卡
One meter one card

一表多卡
One meter more cards

产品参数\ Product parameters

型号\Model	DTSY-121W
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDSY-121P

单相射频卡预付费电能表\

Single phase prepaid energy meter with RFID card

SMT工艺
High efficiency

安装简单
Easy installation

出厂检验
100% calibration

一表一卡
One meter one card

产品参数\ Product parameters

型号\Model	DDSY-121P
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA

DTSY-121P

三相射频卡预付费电能表\

Three phase prepaid energy meter with RFID card

SMT工艺
High efficiency

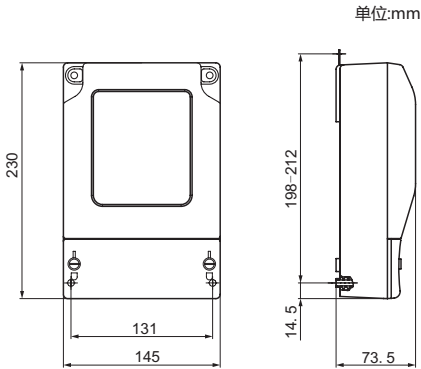
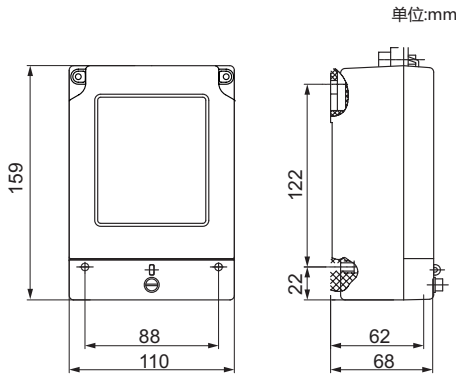
安装简单
Easy installation

出厂检验
100% calibration

一表一卡
One meter one card

产品参数\ Product parameters

型号\Model	DTSY-121P
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



MHSB-121

一卡通预付费智能水表(IC卡)\

Smart prepaid water meter with unit card (IC card)

SMT工艺
High efficiency

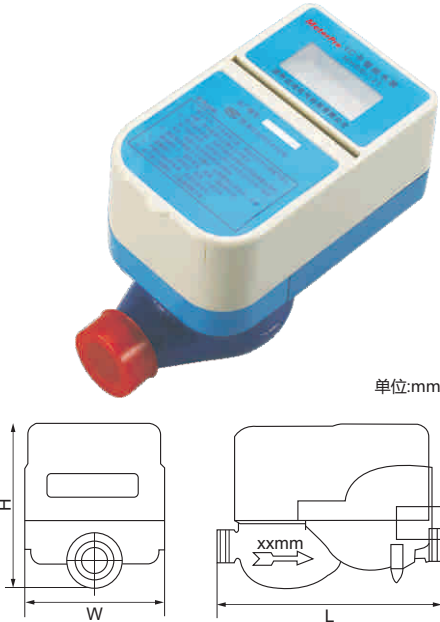
安装简单
Easy installation

出厂检验
100% calibration

一表一卡
One meter one card

规格尺寸\ Dimension

标称口径 DN	L mm	W mm	H mm	螺纹 D	连接螺纹长度(mm)	
					a min	b min
15	165	85	115	G3/4B	10	12
20	195	85	115	G1B	12	14
25	225	85	115	G11/4	12	16



功能特点\ Function

1. 预付费功能 量控: 就是水量预付费, 用户购买的水量输入到表中去, 用多少水量从剩余水量中扣减多少水量, 剩余水量用完后关闭停水; 复费率水价预付费: 内置两套费率单价, 每套的月间隔对应一个用水单价, 一年中不同的月可以有不同的单价。
2. 一卡通功能: 一张卡 (SLE4442卡和射频卡) 可实现电能表、水表及热量表预付费抄控功能。
3. 剩余/透支报警功能: 当水表剩余水量 (金额) 小于报警水量 (金额) 时, 水表阀门关闭, 液晶显示报警提示 (提醒用户及时交费充值), 把用户卡插入水表中, 阀门打开, 液晶报警提示消失;
4. 报警提示功能: 电池欠压、剩余水量 (金额) 不足、强磁干扰、阀故障、阀漏水及其他故障信息, 都会在液晶上提示报警错误信息代码; 欠压和磁保护后蜂鸣器 (发光二极管) 报警6声, 同时关闭阀门, 报警时间大约5S左右。
5. 欠压检测功能: 当电池电压不足时, 水表会提示“欠压”字样, 并关闭阀门;
6. 掉电关阀功能: 当用户电池欠压更换电池 (碱性电池) 或用户把水表铅封打开拆卸电池 (锂电池) 时, 阀门会自动关闭, 停止供水。
7. 数据冻结功能: 水表保存12个月、7日冻结数据, 数据上传后方便进行日结算和月结算及报表统计。
8. 快速换表功能: 旧表到了使用年限后要更换新表, 直接用一张换表卡把旧表数据取出后插入新表, 旧表数据换到了新表中, 从而快速实现换表。
9. 数据上传功能: IC卡(SLE4442)水表用户每次充值, 会把相关数据信息带回管理系统, 让管理方及时了解用户的用水情况及表状态。
10. 阀门自维护功能: 阀门定时旋转, 及时清掉阀门水垢, 保证阀门灵活性。
11. 阀门故障检测功能: 当阀门转动被污垢卡住后, 阀门自动向相反方向转动后再向初始动作方向转动, 已达到把污垢清除目的。
12. 阀门漏水检测功能: 当阀门关闭后仍然有大于0.1m 的水流出。
13. 计量反向检测功能: 当水表方向与水管水量方向不一致时, 走水在30.1m 内能检测出水表装反, 并关阀报警。
14. 即时换表功能: 一张换表卡把旧表数据取出, 插入新表后把旧表数据存入新表中, 达到快速换表功能。
15. 防囤水功能: 通过系统软件可灵活设置充值上下限, 防止用户囤水。
16. 防滴水功能: 配合防滴水基表, 实现防滴水功能。
17. 更换电池方便

1. Prepayment, volume control: the water volume that user purchased input into the water meter, during consumption, the meter deduct the actual used volume at real time, if the purchased volume used up, the meter close the valve and stop water supply; Multi-tariff prepayment: two sets of built-in tariffs, each set has one price in every month interval. The different month in a year may have different prices.
2. One multifunctional card: one card (SLE4442 and RF card) can realize prepayment, read and control of energy meter, water meter, and calorimeter
3. Alarm for lower rest/overdraft: when rested volume (amount) less than the setting value for alarm, the valve of water meter will be closed, LCD give alarm indication (remind user of purchasing and charging again), then insert user card into water meter, valve opened, and LCD alarming indication disappear.
4. Alarm reminding function: the information of battery under?voltage, rest volume (amount) not enough, strong magnetic interference, valve fault, valve leakage and other faults, all of these alarming codes will be displayed on LCD; after protection of under?voltage and magnetic protection, buzzer (lighting diode) produce 6 sounds, and close the valve at same time, alarming time about 5s.
5. Detection of under-voltage: when battery voltage is too low, water meter will display U/V, and close valve.
6. Close valve in case of power failure: when the user replace battery (alkali) or open Pb seal and dismantle (Li) battery, the valve will be closed automatically and stop water supply.
7. Data frozen: water meter will keep all frozen data of 12 months, 7 days, only after data is uploaded, then it can do daily and monthly settlement, and statistic report.
8. Quick replace meter: when old meter service period is expired, it need replace new one, use a change card to read the data in old meter, then insert into the new meter, data will be transferred to new meter very quickly.
9. Data upload: when the user of IC card (SLE4442) charge the metereach time, it will upload the data to management system, let supply department know the user consumption status and meter status.
10. Self-maintenance of valve: the valve will rotate periodically, clear off water scale, ensure the valve workable.
11. Fault detection on valve: when valve is blocked because of waste or water scale, valve will rotate automatically in opposite direction, then rotate in initial direction again, to perform clearing off waste or water scale

12. Detection of water leakage on valve: when valve is closed, water flow still more than 0.1m3
13. Measurement of water flow at reverse direction: when water flow is in reverse direction, within 0.1m3 flow, it can detect the problem, close the valve and give alarming.
14. Real-time replace meter: use a change card to read the data in old meter, then insert into the new meter, data will be transferred to new meter very quickly.
15. Anti-hoard: the software can set to limit the maxi charging volume, to prevent user hoarding water
16. Water drop proof: cooperated with water drop proof meter, to perform this water drop function (water drop but not measure)
17. Easy to replace battery

产品参数\ Product parameter

1. 使用温度: 储存温度: 1℃-50℃; 工作温度: 1℃-30℃
2. 使用湿度: ≤90%
3. 安装环境: B/C类
4. 电磁环境: E1
5. 工作电压: 锂电池: 3.6V
6. 最大允许工作压力: ≤1MPa
7. 电池寿命: 锂电池: 6+1年;
8. 静态工作电流: SLE4442卡: Ib≤3~5uA;
9. 耐用性能: SLE4442卡座刷卡次数≥100000次
10. 计量等级: 2级
1. Operating Temperature: Storage Temperature: 1℃-50℃; Working temperature: 1℃-30℃
2. Humidity: ≤90%
3. Installation Environment: B / C class
4. Electromagnetic Environment: E1
5. Operating voltage: lithium battery: 3.6V
6. The maximum allowable working pressure: ≤1MPa
7. Battery life: Lithium Battery: 6 + 1 year;
8. Quiescent current: SLE4442 card: Ib≤3 ~ 5uA;
9. Durability: SLE4442 card deck number ≥ 100000 times
10. Level of measurement: 2
17. Easy to replace battery

DDSY-121D

单相导轨式预付费电能表\

Single phase din-rail prepaid energy meter

SMT工艺
High efficiency

一表一卡
One meter one card

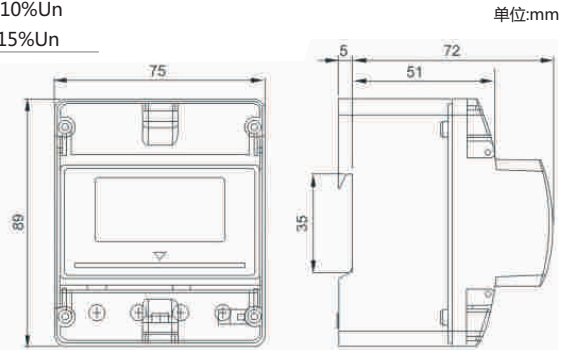
一表多卡
One meter more cards

导轨式
Din rail



产品参数\ Product parameters

型号\Model	DDSY-121D
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A, 10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTSY-121D

三相导轨式预付费电能表\

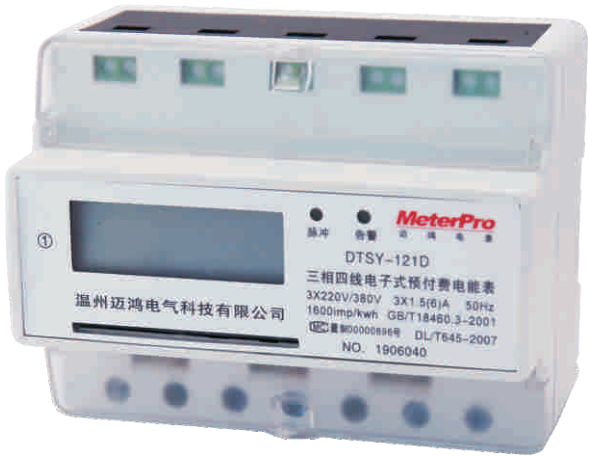
Three phase din-rail prepaid energy meter

SMT工艺
High efficiency

一表一卡
One meter one card

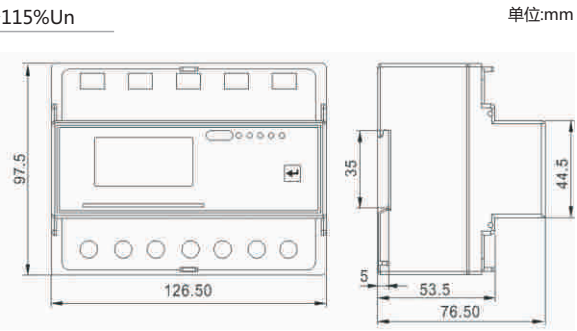
一表多卡
One meter more cards

导轨式
Din rail



产品参数\ Product parameters

型号\Model	DTSY-121D
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A, 10(40)A, 15(60)A, 20(80)A,30(100)A
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工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



导轨表介绍\ Introduction of din rail energy meter

型号\Model

DDS-121D/1P, DDS-121DJ/1P单相导轨式电能表\ Single phase din rail energy meter
DDS-121D/2P单相导轨式电能表\ Single phase din rail energy meter
DDS-121D/4P, DDS-121DJ/4P单相导轨式电能表\ Single phase din rail energy meter
DTS-121D/7P, DTS-121DJ/7P三相导轨式电能表\ Three phase din rail energy meter
DDSF-121D, DTSF-121D导轨式多费率电能表\ Din rail multi-rate energy meter

介绍\Introduction

导轨式安装电能表由于其微型化的结构，可方便其与微型断路器一起使用，安装于终端照明箱内。为低压照明终端的电能计量提供了有效的解决方案。可广泛应用于楼宇、商场、会展中心、学校、机场、港口及工厂等。
Because of its miniaturized structure, the din railenergy meter can be conveniently used with the miniature circuit breaker and installed in the terminal lighting box. It provides an effective solution for energy metering of low-voltage lighting terminal. It can be widely used in buildings, shopping malls, Convention and Exhibition centers, schools, airports, ports and factories.

功能特点\Function

- 1.35mm DIN标准导轨安装，符合DIN EN 50022标准，GB/T17215.321-2008标准；

2.标准配置无源电能脉冲输出(有极性)，可选择无源远动电能脉冲输出(无极性)，方便与各种AMR系统联接；

3.LED指示电源状态(绿色)和电能脉冲信号(红色)；

4.标准配置S型接线(底端进线，顶端出线)，直接接入式使用。
- 1.35mm standard din rail, meeting DIN EN 50022 standard

2.GB/T 17215.321-2008 standard;

3. Standard configuration of passive power pulse output (polarity), passive remote power pulse output (non-polarity) can be selected to facilitate the connection with various AMR systems;

4. LED indicates power supply status (green) and power pulse signal (red);

5. Standard configuration of S-type wiring (bottom-in, top-out), direct access.

DDS-121D/1P

单相导轨式电能表\

Single phase din rail energy meter

SMT工艺
High efficiency

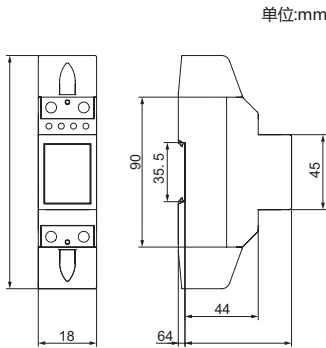
安装简单
Easy installation

出厂检验
100% calibration

导轨式
Din rail

产品参数\ Product parameters

型号\Model	DDS-121D/1P
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDS-121D/2P

单相导轨式电能表\

Single phase din rail energy meter

SMT工艺
High efficiency

安装简单
Easy installation

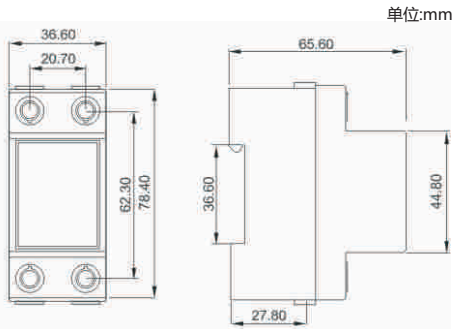
出厂检验
100% calibration

导轨式
Din rail

测量电压电流
Display V. A.

产品参数\ Product parameters

型号\Model	DDS-121D/2P
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DDS-121D/4P

单相导轨式电能表\

Single phase din rail energy meter

SMT工艺
High efficiency

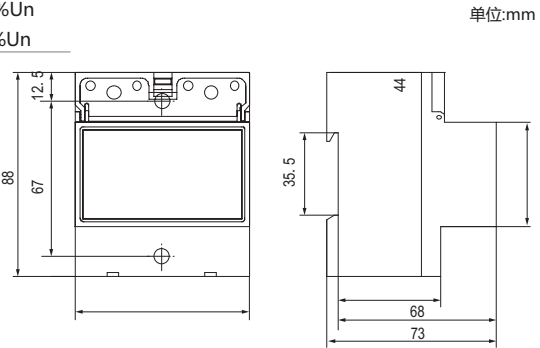
安装简单
Easy installation

出厂检验
100% calibration

导轨式
Din rail

产品参数\ Product parameters

型号\Model	DDS-121D/4P
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DTS-121D/7P

三相导轨式电能表\

Three phase din rail energy meter

SMT工艺
High efficiency

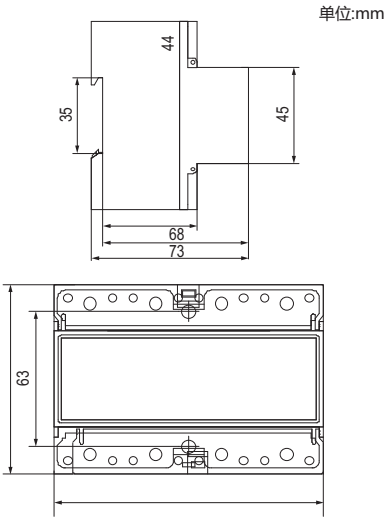
安装简单
Easy installation

出厂检验
100% calibration

导轨式
Din rail

产品参数\ Product parameters

型号\Model	DTS-121D/7P
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



导轨式多费率电能表\ Din rail multi-rate energy meter

功能特点\ Function

- 1、可选35mmDIN导轨或板前安装\35 mm DIN rail or plate can be selected for installation.
- 2、具有3种费率，12个时段\Three rates and twelve periods.
- 3、内置时钟，断电数据永久保存，内置后备电池，免维护\Built-in clock, power-off data permanent storage, built-in backup battery, maintenance-free.
- 4、功率方向自动识别，故障自动检测Automatic identification of power direction and automatic fault detection.

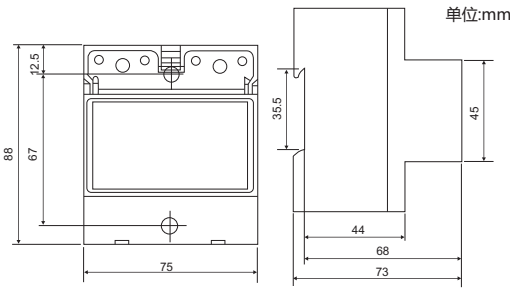
DDSF-121D

单相导轨式多费率电能表\ Single phase din rail multi-rate energy meter



产品参数\ Product parameters

型号\Model	DDSF-121D
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A, 10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



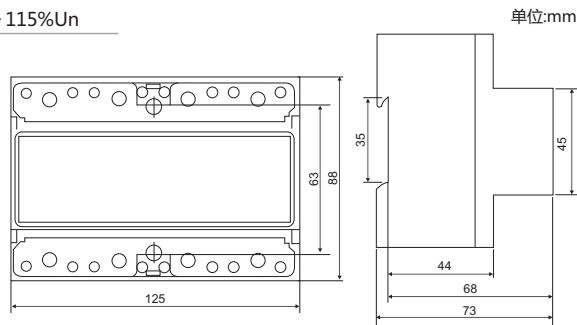
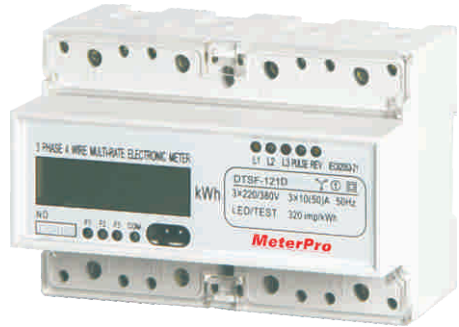
DTSF-121D

三相导轨式多费率电能表\ Three phase din rail multi-rate energy meter



产品参数\ Product parameters

型号\Model	DTSF-121D
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~ 110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~ 115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A, 10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: - 25℃ ~ + 60℃ 极限温度Limit Temperature: - 40℃ ~ + 70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W , 10VA



机械式电能表介绍\ I

型号\Model

- DD28单相机械式电能表 Single phase mechanical energy meter
- DD862单相机械式电能表 Single phase mechanical energy meter
- DT862三相机械式电能表 Three phase mechanical energy meter

介绍\ Introduction

机械电能表（也叫感应式电能表）是以感应系测量机构的圆盘旋转方式工作的电能表，这种仪表的测量机构转矩大，成本低，是一种广泛用于电力、工农业生产及家庭用户的电工仪表。

Mechanical watt-hour meter (also known as induction watt-hour meter) is a kind of watt-hour meter which works in the way of disc rotation of induction measuring mechanism. The measuring mechanism of this kind of meter has high torque and low cost. It is an electrical instrument widely used in electric power, industrial and agricultural production and household users.

功能特点\Function

- 1.基架采用优质钢板冲压成形并经时效处理，具有长期使用结构稳定、抗冲击等优点；
- 2.电压元件采用全封闭式环氧树脂真空浇注线圈，电流元件采用双重绝缘结构，具有很好的电气特性；
- 3.底端轴承采用磁推式结构，顶端导向轴承采用具有自润滑性能的石墨衬套和不锈钢针组成，具有磨损小、使用寿命长、磨擦阻力极小等优点；
- 4.各种调整机构均采用无级变速机构，仪表起潜动不必调整，均由圆盘上的防潜孔来完成，方便用户调校；
1. The base frame is stamped with high-quality steel sheet and aged, which has the advantages of long-term structural stability and impact resistance.
2. Voltage component adopts fully enclosed epoxy resin vacuum pouring coil, current component adopts double insulation structure, which has good electrical characteristics.
3. The bottom bearing adopts magnetic push structure, and the top guide bearing is composed of graphite bushing and stainless steel needle with self-lubricating performance. It has the advantages of low wear, long service life and minimal friction resistance.
4. Various adjusting mechanisms adopt stepless speed change mechanism. The instrument starts and moves without adjusting. It is accomplished by the anti-submergence hole on the disc, which is convenient for users to adjust.



DD28

单相机械式电能表\

Single phase mechanical energy meter

SMT工艺
High efficiency

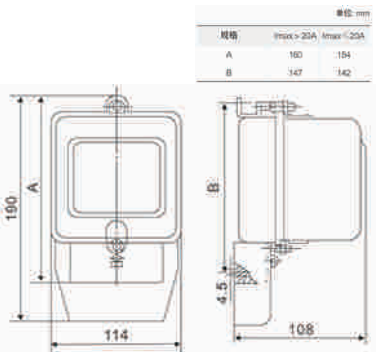
安装简单
Easy installation

出厂检验
100% calibration



产品参数\ Product parameters

型号\Model	DD28
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
直接接入式\Direct access:	5(10)A,10(20)A, 15(30)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DD862

单相机械式电能表\

Single phase mechanical energy meter

SMT工艺
High efficiency

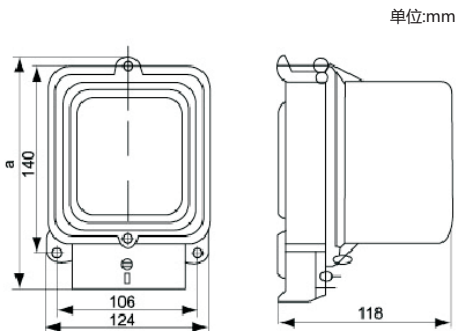
安装简单
Easy installation

出厂检验
100% calibration



产品参数\ Product parameters

型号\Model	DD862
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



DT862

三相机械式电能表\

Three phase mechanical energy meter

SMT工艺
High efficiency

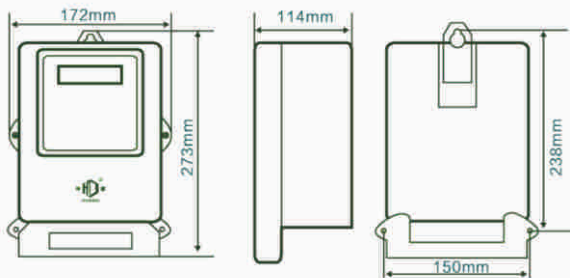
安装简单
Easy installation

出厂检验
100% calibration



产品参数\ Product parameters

型号\Model	DT862
参比电压\Reference voltage	3*57.5/100V, 3*220/380V, 3*100V, 3*380V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



MH204
系列多功能电力仪表\

MH204 series multi-functional meter

SMT工艺
High efficiency

安装简单
Easy installation

出厂检验
100% calibration



介绍\Introduction

MH204 系列多功能电力仪表是针对电力系统、工矿企业、公共设施、智能大厦的电力监控需求而设计的。它能测量所有的常用电力参数，包括电流、电压、频率、功率因数、有功功率、无功功率、有功电能、无功电能等参数。带有电能脉冲输出和RS485通讯接口，可实现数据的远程传输，并可选配开关量输入输出、模拟输出。产品目前广泛应用于能源管理系统、变电站自动化、配电网自动化、小区电力监控、工业自动化、智能建筑、智能配电盘及开关柜中。

MH204 series multi-functional power meters are designed to meet the needs of power monitoring in power systems, industrial and mining enterprises, public facilities and intelligent buildings. It can measure all the common power parameters, including current, voltage, frequency, power factor, active power, reactive power, active power, reactive power and other parameters. With power pulse output and RS485 communication interface, the remote transmission of data can be realized, and the switch input and output, analog output can be optionally allocated. Products are widely used in energy management system, substation automation, distribution network automation, residential power monitoring, industrial automation, intelligent buildings, intelligent distribution panels and switchgear.

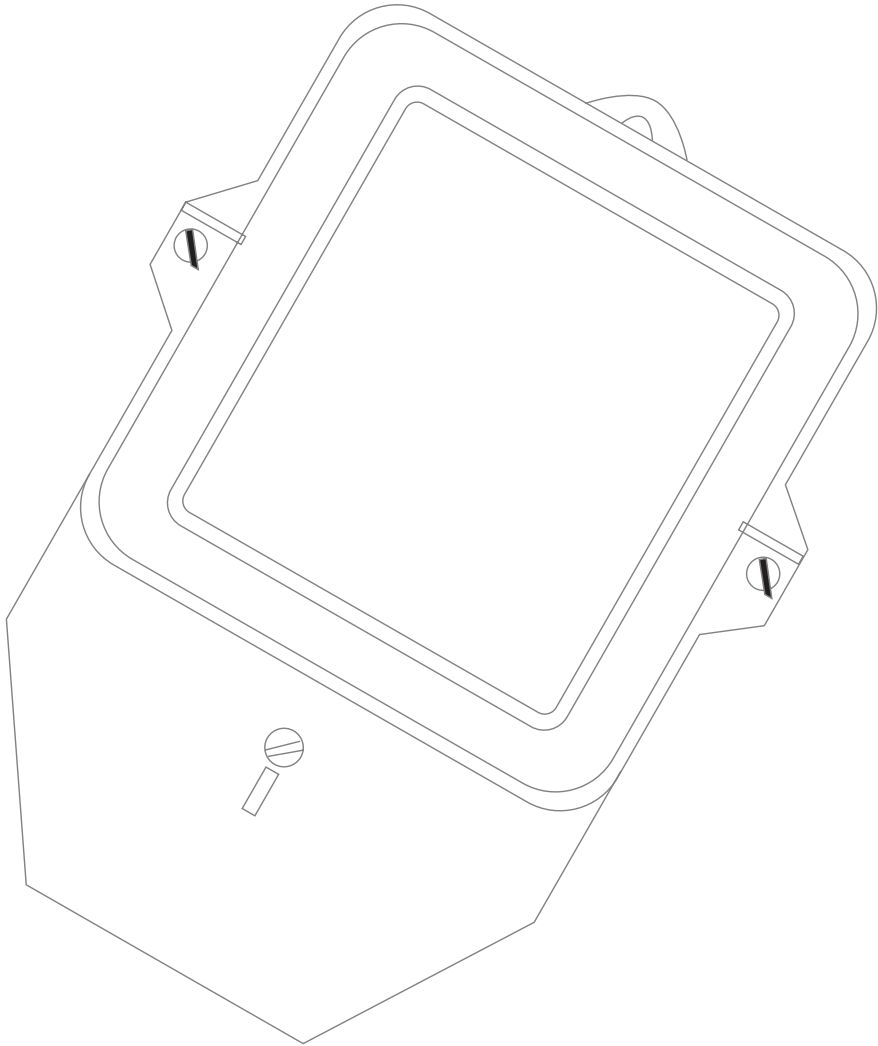
产品参数\Product parameters

精度等级Accuracy level			有功电能0.5级,无功电能1级\active power accuracy class 0.5\ reactive power accuracy class 1
显示Display			LED屏(MH204E), LCD屏(MH204Z)
输入测量 Measurement	电压 voltage	额定值Rated value	AC380V/AC100V
		负荷Load	持续Sustained: 1.2倍(times)瞬时instantaneous: 2倍(times)(10s秒)
		功耗Power consumption	< 1VA(每相per phase)
		阻抗impedance	> 300kΩ
	电流 current	额定值Rated value	AC1A/AC5A
		负荷Load	持续Sustained: 1.2倍(times) 瞬时instantaneous: 10倍(times)(5s秒)
		功耗Power consumption	< 0.4VA(每相per phase)
环境条件 Environment	阻抗impedance		< 20MΩ
	频率Frequency		50/60Hz±10%
	电能Electric energy		有功、无功电能计量Active and reactive energy metering
	温度Temperature		工作温度Work: -10- + 55℃, 存储温度storage: -25- + 70℃
环境条件 Environment	湿度Humidity		相对湿度Relative humidity≤93%RH
	海拔Altitude		海拔高度Altitude≤2500m

其他电能表及配件\ Other meters and accessories

型号\Model

- DJGZ-MH121集中器 Conentratior
- DCZL-MH121采集器Data collector
- DDSH108多用户智能电表Multichannel smart energy meter
- DDS238单相插座式电能表Single phase socket mounted energy meter
- 更多电能表Expanding meter models



DJGZ-MH121

集中器\
Conentrator

SMT工艺
High efficiency

安装简单
Easy installation

出厂检验
100% calibration

产品简介\Introduction

DJGZ-MH121型系列集中器（以下简称集中器）是依据国家电网公司建设电力用户用电信息采集系统的要求，结合在电力行业多年设计、开发和现场运行经验，基于嵌入式软硬件平台设计的新一代集中抄表设备。集中器下行通道采用RS485或电力线载波通信方式与采集器或电能表进行数据交换，并完成数据存储、处理等功能；上行通道采用光纤通信或者GPRS通信方式与主站管理系统进行数据交换，主要适用于低压居民用户自动抄表系统的建设。DJGZ-MH121 series concentrator (hereinafter referred as the concentrator) is based according to requirements of the national grid company build users using of electricity informationcollection system, combined with years of power industry design, development and on site operation experience, based on embedded hardware and software latform design a new generation of centralized meter reading equipment. The downstream channel of the concentrator use RS485 or power line carrier communication to exchange data with the collector or the energy meter and complete the data storage and processing functions. The upstream channel adopts the optical fiber communication or GPRS communication mode to exchange data with the master station management system, mainly applicable to the low voltage residents of the automatic meter reading system construction.

功能特点\Function

- 1.上行通道:

RJ45以太网接口、光纤通信接口或GPRS通信接口（可选）。可直接与主站管理系统进行数据交换。
- 2.下行通道:

1路RS485通信接口、1路电力线载波通信接口、1路直流模拟量接口。
- 3.本地接口:

1路RS232通信接口、1路USB接口、1路RS485通信接口、1路红外通信接口。
- 4.负载能力:

一路RS485接口最大可负载32只电能表数据采集；一路电力线载波通信接口最大可负载2040只电能表数据采集，载波通道支持美国Echelon、青岛东软、青岛鼎信等主流厂家载波芯片。
- 5.交流采样功能:

有功准确度等级:1级，无功准确度等级：2级（仅作为考核参考使用）。
- 6.现场维护功能:

可通过RS485通信接口、RS232通信接口或红外通信接口进行参数设置等维护工作，也可现场抄读电能量数据。
- 7.数据采集功能:

可分类采集电能表的电能量数据，采集的数据类型包括总及各费率电能量数据、电压电流瞬时量数据、最大需量数据等。在规定时间内未采集到的数据，能够自动进行补抄。
- 8.数据管理功能:

根据主站的设置，可存储每个电能表31个日零点（次日零点）冻结电能数据，12个月末零点（每月1日零点）冻结电能数据，12个抄表日冻结数据、10个重点用户10天的24个整点电能数据，以及256条重要事件、256条一般事件记录。
- 9.监控功能:

可记录电能表运行状况，当电能表发生参数变更、时钟超差或电能表故障等状况时，生成事件并记录发生时间和异常数据。
- 10.支持远程或本地在线升级功能:

远程升级支持断点续传方式，若程序升级不成功，则集中器可按原有程序进行运行；也可使用U盘进行本地程序升级、程序备份、参数设置、参数备份。

- 1.Upstream channel:

RJ45 Ethernet interface, optical communication interface or GPRS communication interface (optional). Can be directly with the master station management system for data exchange.
- 2.Downstream channel:

1 route RS485 communication interface, 1 route power line carrier communication interface, 1 route DC analog quantity interface.
- 3.Local interface:

1 route RS232 communication interface, 1 route USB interface, 1 route RS485 communication interface, 1 route infrared communication interface.
- 4.Load capacity:

1 route RS485 interface can load up to 32 pcs meters data acquisition; 1 route power line carrier communication interface maximum load 2040 pcs meters data acquisition, carrier channel support the United States Echelon, Qingdao Neusoft, Qingdao tripod and other main manufacturer's carrier chip.
- 5.AC sampling function:

active accuracy level: class 1, reactive power accuracy level: class 2 (only as an assessment reference).
- 6.On-site maintenance function:

to do maintenance work such like seting parameters through the RS485 communication interface, RS232 communication interface or infrared communication interface, also can read the meter's data on-site.
- 7.Data acquisition function:

can be classified to collect the energy data of the meters, the collected data types include the total energy data and for each rate, voltage and current instantaneous data, the maximum demand data. Can automatically re-reading the meter if did not collect the data within the specified time.
- 8.Data management function:

According to the main station's setting, can store each energy meter 31 days zero o'clock(the next day zero o'clock) freeze energy data, 12 monthes zero o'clock(1st day of each month zero o'clock) freeze energy data, 12 meter reading day freeze data, 10 highlight users'10 days of 24 integral points of power data, as well as 256 pcs important events, 256 pcs general event records.
- 9.Monitoring function:

can record the operating status of the energy meter, when the energy meter parameter changes, clock tolerance or the meter failure and other conditions, generate events and record the time and abnormal data.
- 10.Support remote or local online upgrade function:

remote upgrade support breakpoint resume method, if the program upgrade is not successful, the concentrator can run according to the original program; can also use the USB disk for local program upgrades, program backup, parameters Settings, parameter backup.

DCZL-MH121

采集器\
Data collector

产品简介\Introduction

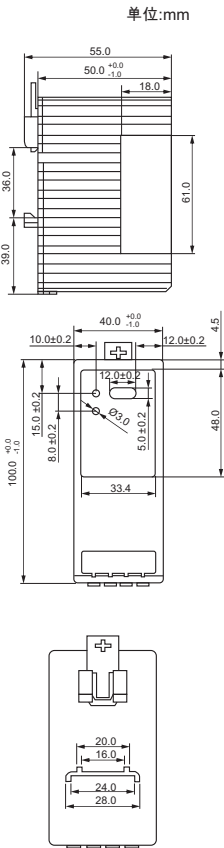
采集器是低压电力线载波集中抄表系统的重要组成部分。应用现代数字通信技术、计算机软硬件技术、低压电力线载波技术等进行电能采集。可以查询和修改设备参数。采集器外壳采用ABS阻燃材料，壁挂式结构设计，体积轻巧，安装方便。The data collector is an important part of the low-voltage power line carrier centralized meter reading system. The application of modern digital communication technology, computer hardware and software technology, low-voltage power line carrier technology for energy acquisition. It can inquire and modify the parameters of the equipment. The shell of the collector is made of ABS flame retardant material. The wall-mounted structure is designed. It is light and convenient to install.

功能特点\Function

序号	功能Function		
1	数据接口 Data interface	抄表接口 Meter reading interface	采集器提供RS485接口进行电能数据采集 The collector provides RS485 port to measure electric energy data
		维护接口 Maintenance interface	采集器提供红外接口进行本地维护 The collector provides infrared port for local maintenance
2	数据传输 Data commu- nication	与集中器通信 Communicate with the concentrator	实现对集中器下发指令的透明转发，并将RS485电表的响应回传 Transparently transfer the instructions to others, and send the response of energy meter via RS485 back 为集中器路由提供载波中继功能 Provide carrier relaying function for concentrator routing.
		与电能表通信 Communicate with the watt-hour meter	采集器通过RS485接口与电能表通信 Collector perform communication with energy meters via RS485 port 与电表通信规约符合DL/T645规约 Its communication protocol with energy meter complies with DL/T465 rules
3	本地功能 Local function	本地状态指示 Local state indicating	具有电源、工作状态、通信状态指示 Indicators for power source, working status, communication status provided.
		本地维护接口 Local maintenance interface	具备红外本地维护接口，可查询参数和抄读电能量数据 Provide local infrared maintenance port for seeking and reading the data of energy meter
4	维护功能 Mainten- ance function	初始化 Initialization	通过本地维护接口可进行初始化操作 Also initialization can be operated via local maintenance port 采集器具有自检自恢复功能 Self-detection and auto-recovery function provided.
		参数查询 Parameter query	采集器能通过本地维护接口进行版本维护和查询 The collector can maintain and check software version via local maintenance port.

产品参数\Product parameters

型号\Model	DCZL-MH121
工作电源额定电压\ Working power supply rated voltage	AC220V±20%
频率范围\Rated frequency	50Hz, 允许偏差-6%~+2%\ 50Hz, Accuracy - 6% ~ + 2%
外形尺寸\Dimensions	100 x40x50mm
正常工作温度\Normal working temperature	25℃ ~ + 55℃
极限工作温度\Limit working temperature	- 40℃ ~ + 70℃
存储和运输温度\ Storage and transportation temperature	-40℃~+70℃
存储和工作湿度\Storage and work humidity	≤95%
电表规约\Meters specifications	DL/T645-1997 DL/T645-2007
数据传输接口\Data transmission interface	1路载波通信接口、1路RS485抄表接口、1路红外维护口
	1 carrier communication interface, 1 way RS485 interface meter, 1 way Infrared maintenance
可靠性\Reliability	MTBF≥10x10 h



DDSH108

多用户智能电表\
Multichannel smart energy meter

产品简介 \ Introduction

多用户智能电能表是一种全电子式智能化多用户电能表，采用模块化的结构形式，以单片机为核心，每户配备独立的计量单元，实现分户计量、集中显示的功能，可进行单相/三相/单相双回路/单相三回路的混合计量。

该产品精度高、体积小、安装方便，广泛应用于工矿企业、城乡居民小区、学生公寓、农网、旧楼改造、高层建筑的用电计量。

Multichannel smart energy meter is a kind of all-electronic intelligent meter. It adopts modular structure and takes single chip computer as the core. Each household is equipped with an independent measuring unit to realize the functions of household metering and centralized display. It can be used for singlephase/threephase/singlehousehold double-loop/single-household three-loop hybrid metering.

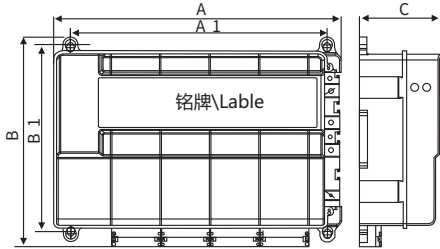
The product has high precision, small volume and convenient installation, and is widely used in industrial and mining enterprises, urban and rural residential areas, student apartments, rural power grid, old building renovation, high-rise building electricity metering.

功能特点 \ Function

- ◆ 具有双向计量功能，精确计量正负两个方向的能，且以同一方向累计，有效杜绝了偷电、漏电现象。
- ◆ 采用数码管和LED循环显示各户的户号、累计用电量和剩余用电量(预付费型)。
- ◆ 每15分钟记录一次用户电量，断电保存。
- ◆ 具有清表功能，并备份数据，以供查询。
- ◆ 配有按键，可设定表号、功率上限，并实现 强制断送电、清表等功能(需要密码验证，密码可修改)。
- ◆ By-direction measurement function, accurately measuring positive and negative energy, and accumulating in the same direction, effectively eliminating the electricity theft and leakage.
- ◆ Digital tube and LED display the household number, cumulative power consumption and residual power consumption (prepaid type).
- ◆ Record the user's power every 15 minutes and save it after power failure.
- ◆ Clearing tables function and backing up data for inquiry.
- ◆ The table number and power upper limit settable with button, and realize the functions of forcible power cut-off and table cleaning.

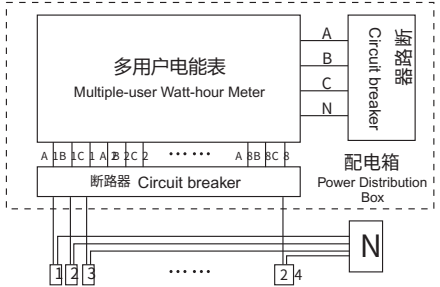
外形及安装尺寸 \ Outline & installation size

参数项\Item	A	A1	B	B1	C
6户电能表\6 channel	226	176±0.1	340	290	133
12户电能表\12 channel	306	265±0.1	340	290	133
18户电能表\18 channel	386	336±0.1	340	290	133
24户电能表\24 channel	466	416±0.1	340	290	133
30户电能表\30 channel	546	496±0.1	340	290	133



产品参数 \ Product parameters

	I (6)	II (12)	III (18)	IV (24)	V (30)
输入电压\ Input voltage	3×220V/380V				
频率\ Frequency	50HZ				
标定电流\ Nominal current	10(60)A				
脉冲常数\ Pulse constant	1200imp/kWh				
精度等级\ Accuracy	1级				
环境温度\ Ambient temperature	-25℃~55℃				
仪表类别\ Meter category	直接接入式				



DDS238

单相插座式电能表\
Single phase socket mounted energy meter



产品简介 \ Introduction

DDS238型插座式安装单相电子式有功电能表。它采用多种先进技术，如微电子技术，专业大规模集成电路，数字采样和处理技术，SMT技术等等。该表的技术性能完全符合国际标准IEC62053-21中精度1级单相有功电能表和标准ANSI C12.20-2002。该表可在室内或室外使用，可以直接精确测量单相交流电网额定频率50Hz或60赫兹的负载的有功电能消耗。DDS238型电能表有多个配置选项，适合与各种市场需求。该表具有可靠性高，体积小，重量轻，完美的外观，安装方便等特性。DDS238 series are socket mounted single phase electronic active energy meters. They adopt many advanced technologies of research and development, like microelectronic-techniques, specialized large-scale IC (integrated circuit), digital sampling and processing technology, SMT technique, and so on. Their technical performances completely conform to International Standards IEC 62053-21 for Class 1 single phase active energy meter and Standards ANSI C12.20-2002.

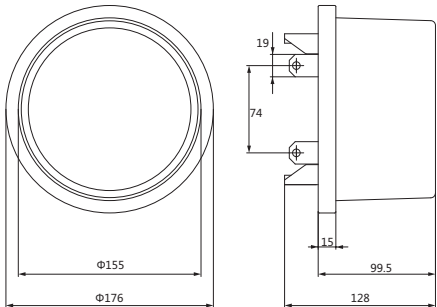
They can directly and accurately measure the load active energy consumption in the single phase AC networks of rated frequency 50Hz or 60Hz and used indoors or outdoors. The DDS238 series have multiple configurations for option, to be suitable with the various market demands. They have features with excellent long-term reliability, small volume, light weight, perfect appearance, easy installation, etc.

功能特点 \ Function

- 1.插座安装，该表外壳是由透明抗紫外线PC材料制成。接线盒是由黑色防火增强玻璃纤维的PC材料制成，具有良好的耐候性，抗冲击性和优秀的外等特点。
- 2.符合标准ANSI C12.10-2004；5+1位LCD显示(99999.1千瓦时)；
- 3.可以选择实时功率测量功能，0~9.99千瓦2个小数位，10.0~99.9千瓦一个小数位；
- 4.LCD显示可选择内置免维护锂电池，以便电源切断时读取电表数据。
- 5.可以添加LCD背光灯以便读取数据。
- 6.LED指示灯分别显示能量脉冲信号(红色)和负载电流方向(黄色)。
- 7.自动检测负载电流的流动方向，由LED指示灯显示(反向电流LED指示灯亮起)
- 8.单向测量单相两线或单相三线有功能量消耗，不受负载电流方向影响，符合标准
- 9.直接连接。单相两线电能表连接类型是1S。单相三线电能表的连接类型是2S；
- 1.Socket mounted, The meter cover is made from transparent anti-ultraviolet PC. The terminal block is made from black fire-retardant glass fiber reinforced PC, with the features of good weather resistance, anti-impact and excellent appearance, etc.
- 2.complying with Standards ANSI C12.10 – 2004.5+1 digits (99999.1kWh) LCD.
- 3.Can select the real-time power measurement function, 2 decimals for 0 ~ 9.99kW, A decimal for 10.0 ~ 99.9kW.
- 4.Can select the maintenance free lithium battery inside for LCD display to read the meter while the power is cut.
- 5.Can add LCD backlight to read meter conveniently.
- 6.LED indicates separately the energy impulse signal (red) and the load current fow direction (yellow).
- 7Automatic detection for the load current fow direction and will be indicated by LED (LED lighting means reverse current fow)
- 8.Measure the active energy consumption in one direction on single phase two wire or single phase three wire, which is not related with the load current fow direction at all, complying with Standards IEC 62053-21 and ANSI C12.20 – 2002.
- 9.Direct connection. For single phase two wire meter, the connection type is 1S. For single phase three wire meter, the connection type is 2S.

产品参数 \ Product parameters

型号\Model	DDS238
参比电压\Reference voltage	220V
工作电压范围\Working Voltage Range	规定电压范围Provisional Voltage Range: 90%Un ~110%Un 扩展电压范围Expanding Voltage Range: 80%Un ~115%Un
电流\Current	互感器接入式Transformer Access Type: 1.5(6)A 直接接入式Direct access: 2.5(10)A,5(20)A,10(40)A, 15(60)A, 20(80)A,30(100)A
准确度等级\Accuracy Level	有功1级 Class 1 有功2级 Class 2
工作温度\Operating temperature	规定温度Regulated Temperature: -25℃~+60℃ 极限温度Limit Temperature: -40℃~+70℃
相对湿度\Relative humidity	≤95%(无凝露no condensation)
频率\Frequency	(50±2.5)Hz/(60±2.5)Hz
静态功耗\Static Power Consumption	<1.5W, 10VA



更多电能表\ Expanding meter models



三相多费率导轨式电能表
Three phase multi-rate din rail energy meter



单相导轨式电能表
Single phase din rail energy meter



单相导轨式电能表
Single phase din rail energy meter



三相多费率导轨式电能表
Three phase multi-rate din rail energy meter



单相室内计量插座
Single phase metering socket for indoor use



三相导轨式电能表
Three phase din rail energy meter



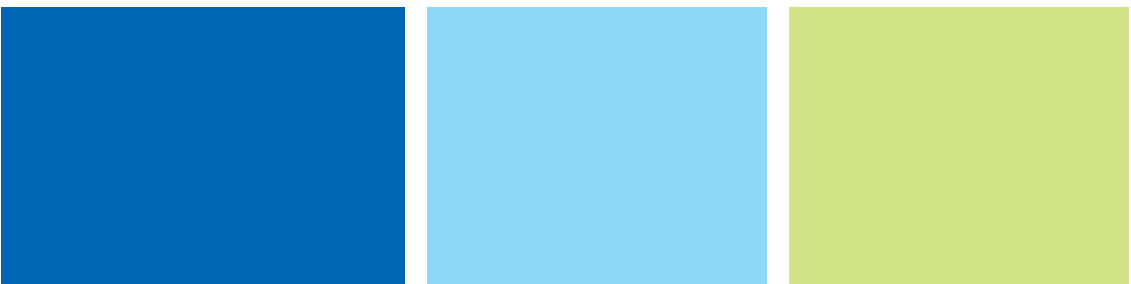
近红外电能表带RS485通讯
Single phase energy meter with near-infrared and RS485 communication



三相导轨式电能表
Three phase din rail energy meter



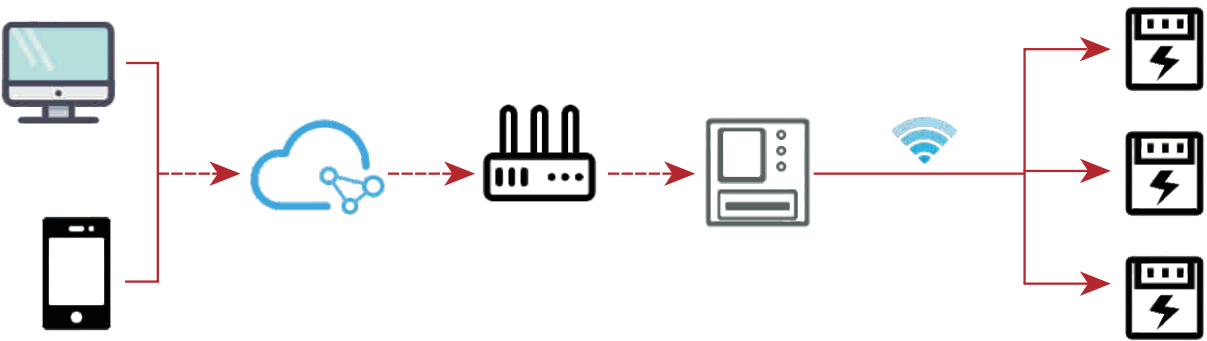
单相机械式电能表
Single phase mechanical energy meter



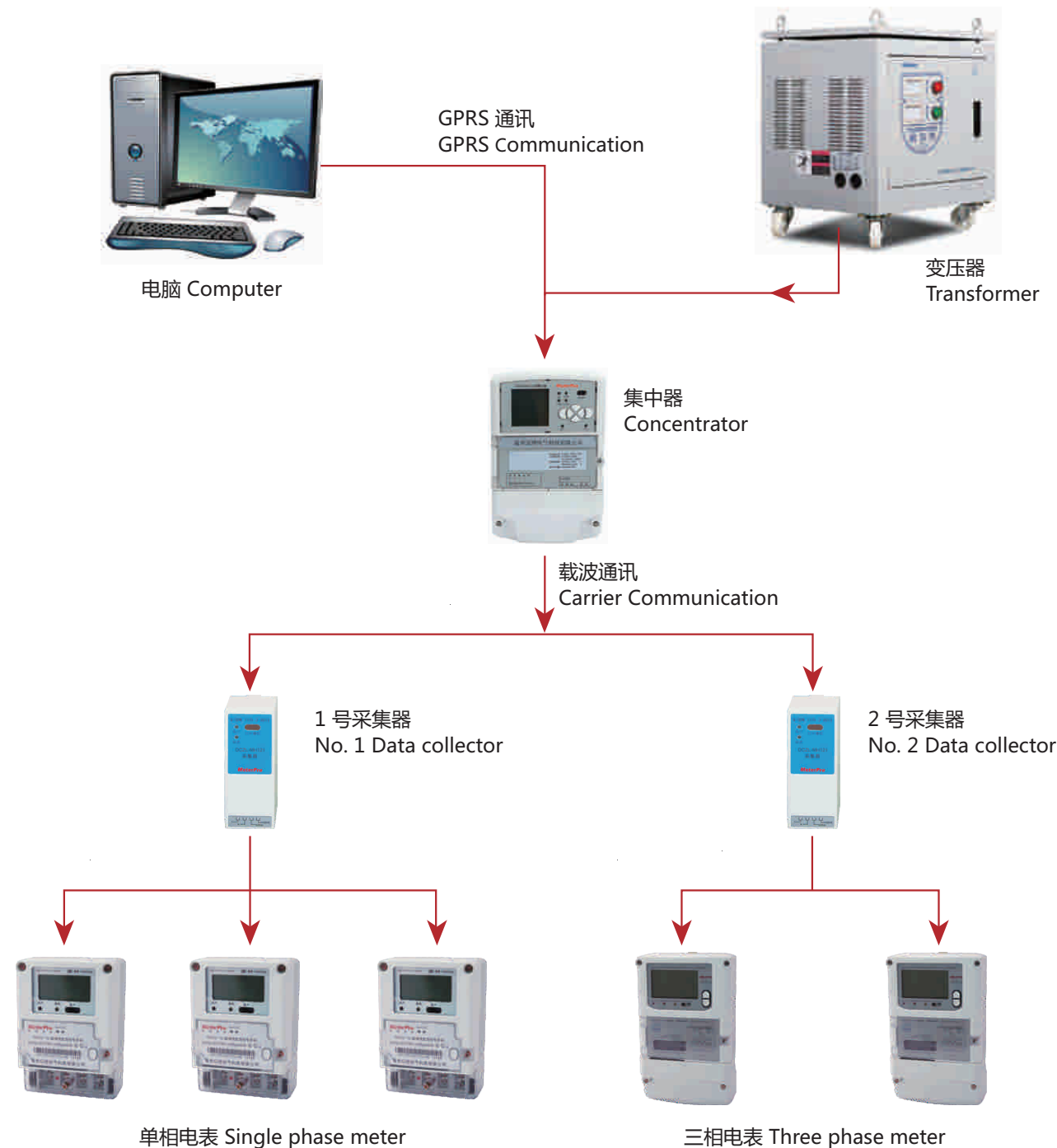
抄表系统\ Meter reading system

介绍\ Introduction

我司有多种抄表系统方案，为不同群体，不同需求的客户提供多种选择。
Our company has several meter reading system solutions, providing more choices for different customers with different needs
远程抄控管理系统\ Remote Meter Reading Management System
远程售电系统 (RS485) \ Remote Electricity Sale System (RS485)
远程售电系统 (WIFI) \ Remote Electricity Sale System (WIFI)
本地售电系统 (IC卡) \ Local Electricity Sale System (IC Card)



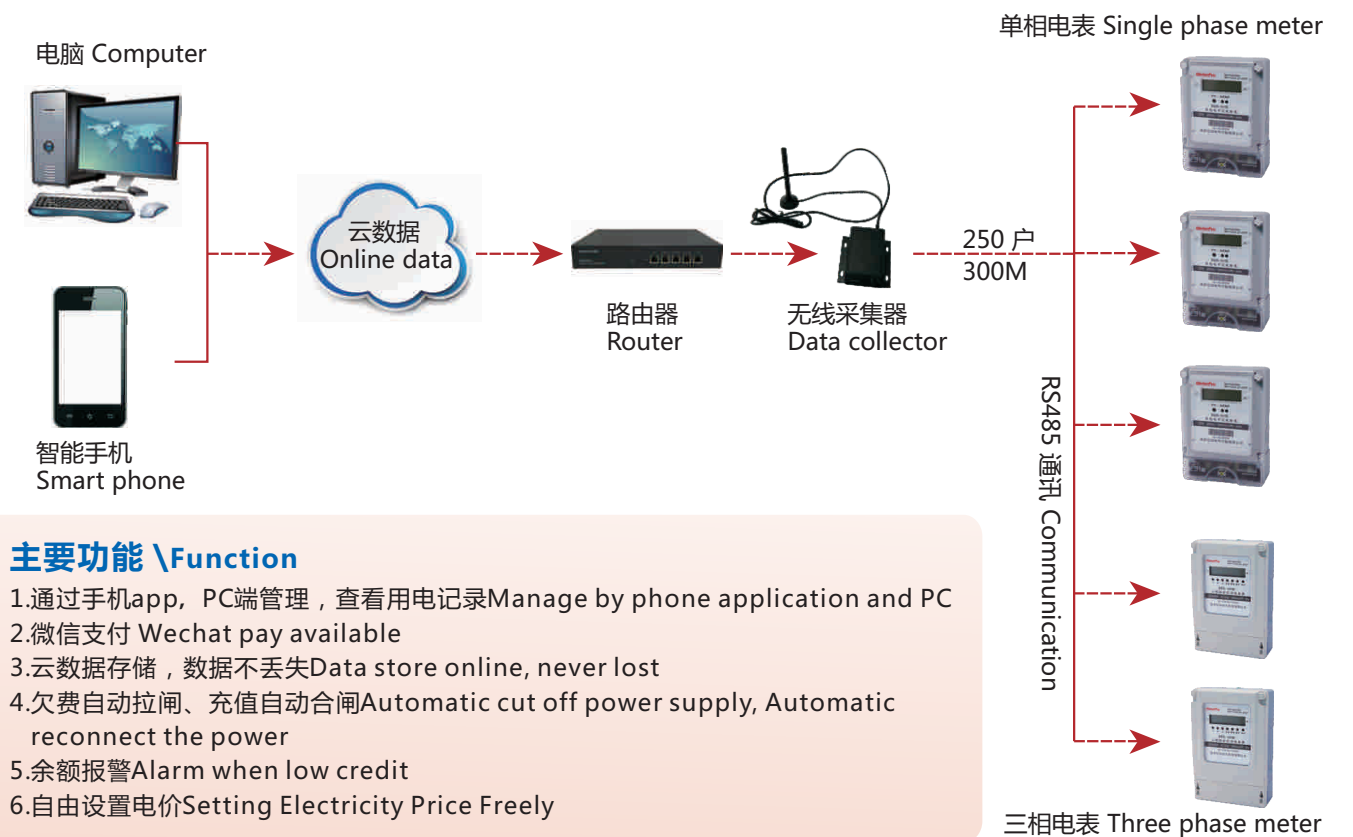
远程抄控管理系统 \ Remote Meter Reading Management System



主要功能 \Function

1. 分费率、时段计费 \Charging by different rate and time period
2. 用户信息表格可导入、导出、快速发布 \ User Information Form can be imported, exported and published quickly
3. 数据本地存储 \Data Local Storage
4. 可进行数据分析、打印报表、打印发票 \Data analysis, report printing and invoice printing.
5. 远程控制：欠费自动拉闸、充值自动合闸 \Remote control: Automatic cut off power supply, Automatic reconnect the power
6. 自由设置电价 \Setting Electricity Price Freely
7. 单表实时抄读 \Real-time reading of single meter

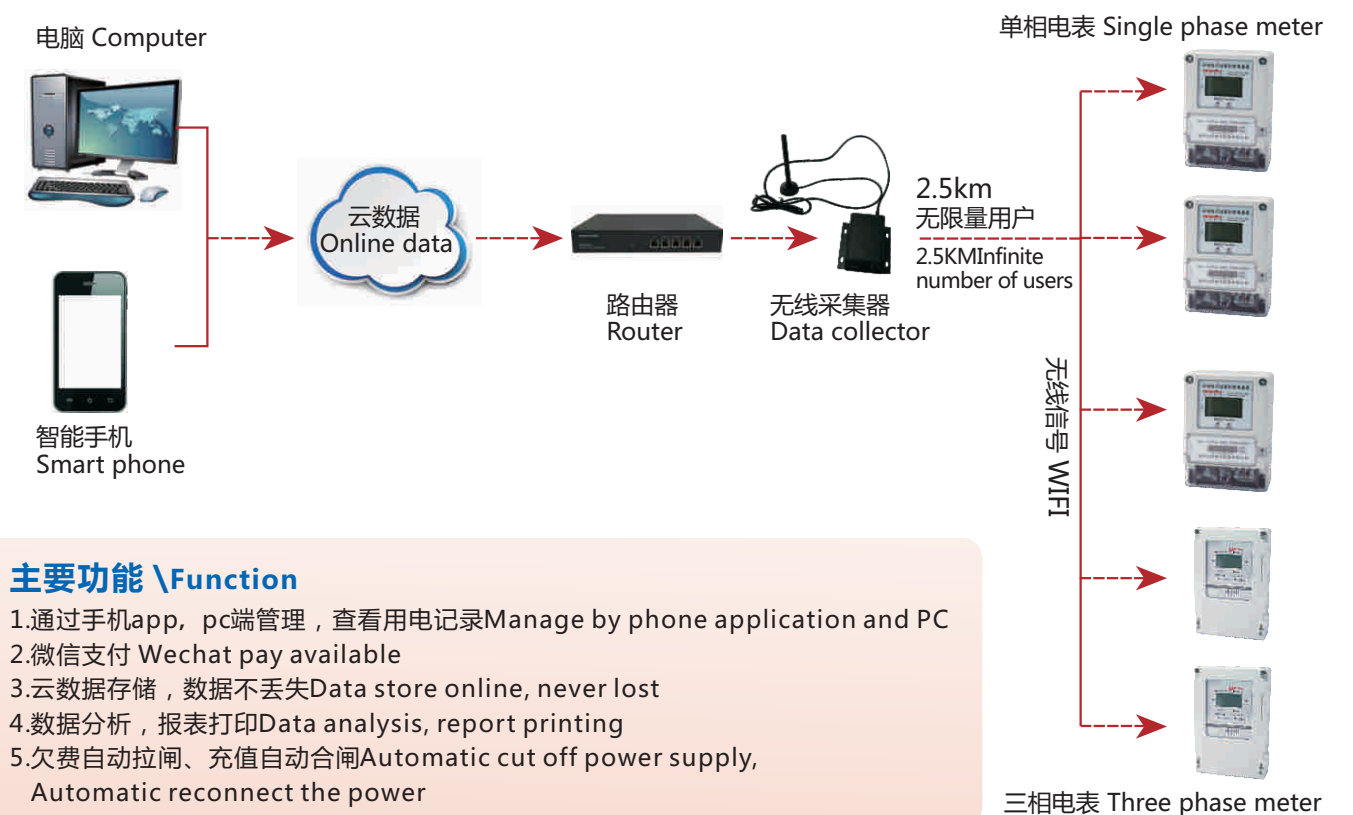
远程售电系统 (RS485) \ Remote Electricity Sale System (RS485)



主要功能 \Function

1. 通过手机app, PC端管理, 查看用电记录 Manage by phone application and PC
2. 微信支付 Wechat pay available
3. 云数据存储, 数据不丢失 Data store online, never lost
4. 欠费自动拉闸、充值自动合闸 Automatic cut off power supply, Automatic reconnect the power
5. 余额报警 Alarm when low credit
6. 自由设置电价 Setting Electricity Price Freely

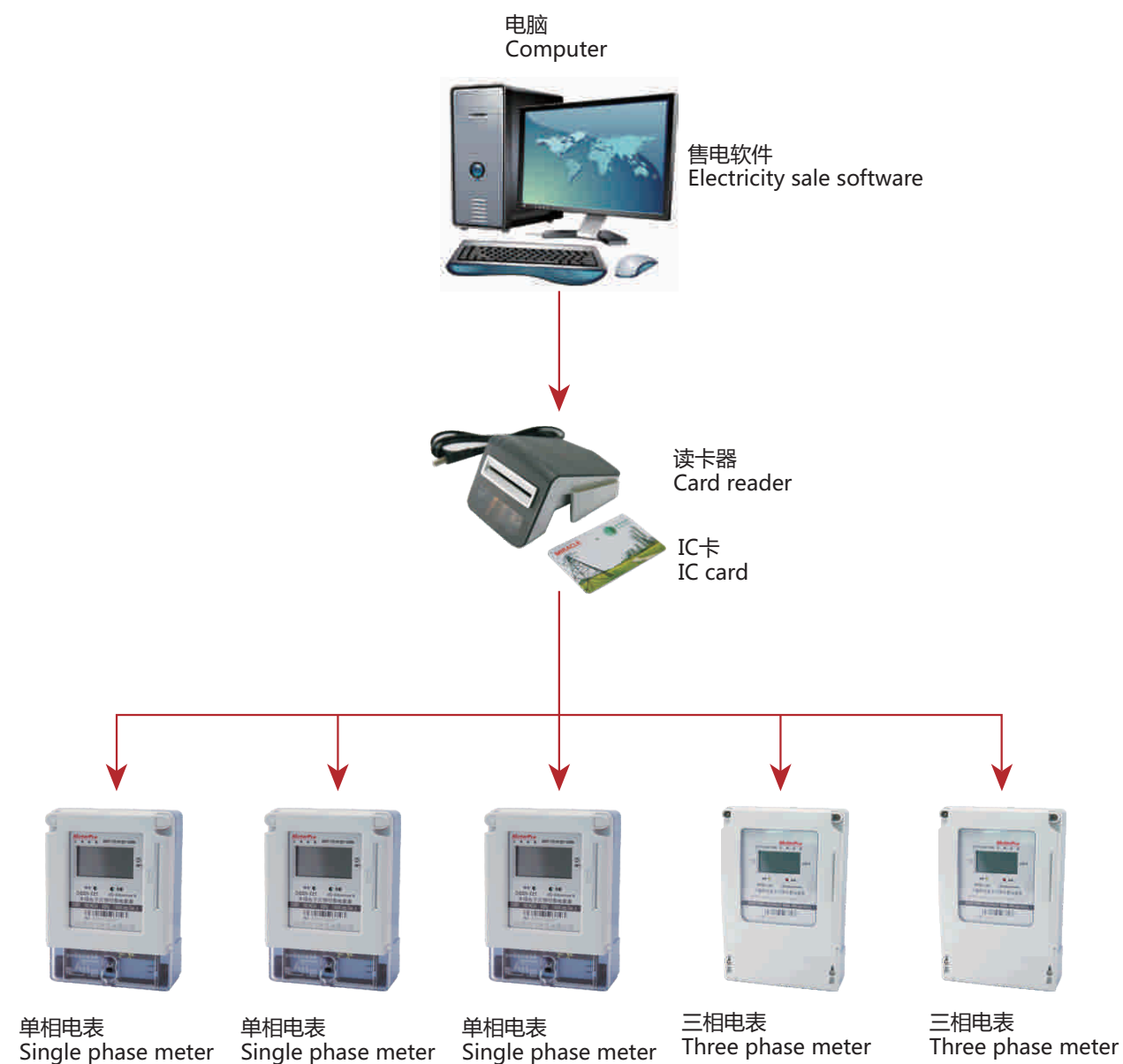
远程售电系统(WIFI) \ Remote Electricity Sale System (WIFI)



主要功能 \Function

1. 通过手机app, pc端管理, 查看用电记录 Manage by phone application and PC
2. 微信支付 Wechat pay available
3. 云数据存储, 数据不丢失 Data store online, never lost
4. 数据分析, 报表打印 Data analysis, report printing
5. 欠费自动拉闸、充值自动合闸 Automatic cut off power supply, Automatic reconnect the power

本地售电系统 (IC卡) \ Local Electricity Sale System (IC Card)

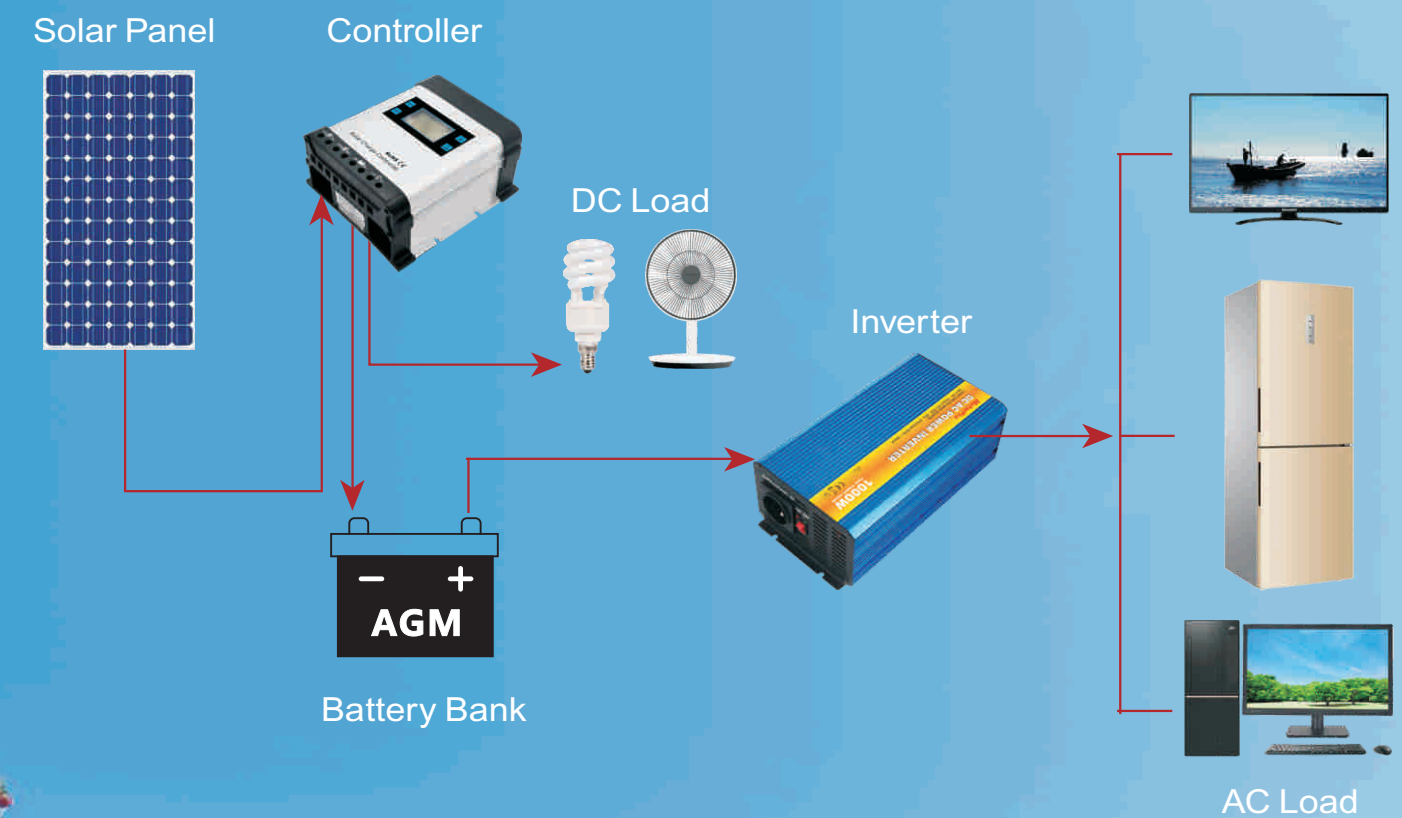


主要功能 \Function

- 1.先充值后用电，解决收费难问题Charge first then use, solve the fee collecting problem
- 2.余额报警Alarm when low credit
- 3.数据本地存储Data Local Storage
- 4.可进行数据分析、打印报表、打印发票Data analysis, report printing and invoice printing.
- 5.欠费自动拉闸、充值自动合闸Automatic cut off power supply, Automatic reconnect the
- 6.自由设置电价Setting Electricity Price Freely

太阳能系统

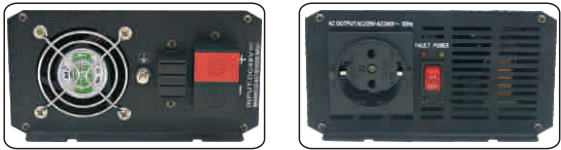
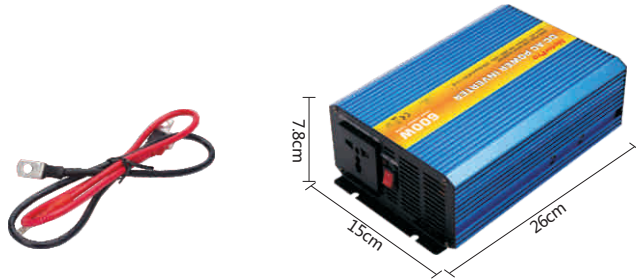
Solar Power System



P600-600W

正弦波逆变器\PURE SINE WAVE INVERTER

保护功能\ DESIGNED FOR SAFETY



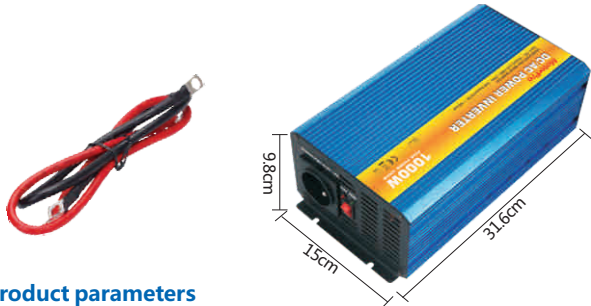
产品参数\ Product parameters

型号 Model	功率 Continuous Power	峰值功率 Peak Power	输出波型 Output Wave	输入电压 Rated Input Voltage	输入电压范围 Input Voltage Range	AC输出电压范围 AC Output	USB输出 USB Output
P600	600W	1200W	正弦波 Pure Sine Wave	DC 12V	DC 10V-16V	AC 230V±10% 50Hz± 3Hz/ AC 110V±10% 60Hz± 3Hz	5V 2.1A
				DC 24V	DC 20V-32V		/
				DC 48V	DC 40V-64V		

P1000-1000W

正弦波逆变器\PURE SINE WAVE INVERTER

保护功能\ DESIGNED FOR SAFETY



产品参数\ Product parameters

型号 Model	功率 Continuous Power	峰值功率 Peak Power	输出波型 Output Wave	输入电压 Rated Input Voltage	输入电压范围 Input Voltage Range	AC输出电压范围 AC Output	USB输出 USB Output
P1000	1000W	2000W	正弦波 Pure Sine Wave	DC 12V	DC 10V-16V	AC 230V±10% 50Hz± 3Hz/ AC 110V±10% 60Hz± 3Hz	5V 2.1A
				DC 24V	DC 20V-32V		/
				DC 48V	DC 40V-64V		

P2000-2000W

正弦波逆变器\PURE SINE WAVE INVERTER

保护功能\ DESIGNED FOR SAFETY



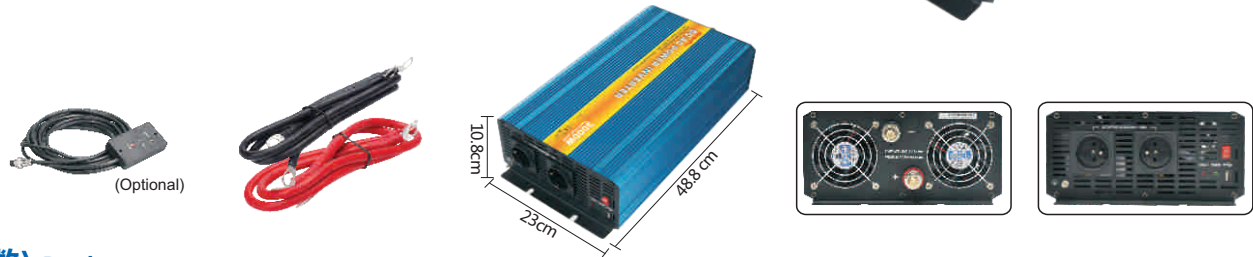
产品参数\ Product parameters

型号 Model	功率 Continuous Power	峰值功率 Peak Power	输出波型 Output Wave	输入电压 Rated Input Voltage	输入电压范围 Input Voltage Range	AC输出电压范围 AC Output	USB输出 USB Output
P2000	2000W	4000W	正弦波 Pure Sine Wave	DC 12V	DC 10V-16V	AC 230V±10% 50Hz± 3Hz/ AC 110V±10% 60Hz± 3Hz	5V 2.1A
				DC 24V	DC 20V-32V		/
				DC 48V	DC 40V-64V		

P3000-6000W

正弦波逆变器\PURE SINE WAVE INVERTER

保护功能\ DESIGNED FOR SAFETY



产品参数\ Product parameters

型号 Model	功率 Continuous Power	峰值功率 Peak Power	输出波型 Output Wave	输入电压 Rated Input Voltage	输入电压范围 Input Voltage Range	AC输出电压范围 AC Output	USB输出 USB Output
P3000	3000W	6000W	正弦波 Pure Sine Wave	DC 12V	DC 10V-16V	AC 230V±10% 50Hz± 3Hz/ AC 110V±10% 60Hz± 3Hz	5V 2.1A
				DC 24V	DC 20V-32V		/
				DC 48V	DC 40V-64V		

PWM太阳能充电控制器\

PWM SOLAR CHARGE CONTROLLER

电池 \ LEAD ACID BATTERY



保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大充电电流 Max.Charging Current	系统电压 System Voltage	充电模式 Charge mode	液晶显示器 LCD indicator	最大光伏输入电压 Max.PV input voltage	电池类型\ Battery type
MH12/24-20D	20A	12/24V 自动转换 12/24V Auto.switch	PWM	光伏电压；电池电压；光伏总充电量；光伏总放电量；恒压充电设置；低压断开设置；低压重连设置 PV voltage;battery voltage;Total PV charge Ah; Total PV discharge Ah; the setting of constant voltage charging;the setting of low voltage disconnect;the setting of low voltage reconnect	≤50V	胶体电池，AGM电池及其他类型的铅酸电池 Gel, AGM, other Lead acid battery
MH12/24-30D	30A					
MH12/24-40D	40A					
MH12/24-50D	50A					
MH12/24-60D	60A					
MH24/48-20D	20A	24/48V 自动转换 24/48V Auto.switch				
MH24/48-30D	30A					
MH24/48-40D	40A					

PWM太阳能充电控制器\

PWM SOLAR CHARGE CONTROLLER

电池 \ LEAD ACID BATTERY



保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大充电电流 Max.Charging Current	系统电压 System Voltage	充电模式 Charge mode	液晶显示器 LCD indicator	最大光伏输入电压 Max.PV input voltage	电池类型\ Battery type
MH24/48-60D	60A	12/24V 自动转换 12/24V Auto.switch	PWM	光伏电压；电池电压；光伏总充电量；光伏总放电量；恒压充电设置；低压断开设置；低压重连设置 PV voltage;battery voltage;Total PV charge Ah; Total PV discharge Ah; the setting of constant voltage charging;the setting of low voltage disconnect;the setting of low voltage reconnect	≤50V	胶体电池，AGM电池及其他类型的铅酸电池 Gel, AGM, other Lead acid battery
MH24/48-80D	80A					

MPPT太阳能充电控制器\

MPPT SOLAR CHARGE CONTROLLER

电池 \ BATTERY TYPE



保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大充电电流 Max.Charging Current	系统电压 System Voltage	充电模式 Charge mode	液晶显示器 LCD indicator	最大光伏输入电压 Max.PV input voltage	电池类型\ Battery type
MPPT12/24-10	10A	12/24V 自动转换 12/24V Auto.switch	MPPT	光伏电压；电池电压；光伏总充电量；光伏总放电量；恒压充电设置；低压断开设置；低压重连设置 PV voltage;battery voltage;Total PV charge Ah; Total PV discharge Ah; the setting of constant voltage charging;the setting of low voltage disconnect;the setting of low voltage reconnect	≤50V	胶体电池，AGM电池及其他类型的铅酸电池，锂电池（需出厂前设置） Gel, AGM, other Lead acid battery
MPPT12/24-20	20A					

MPPT太阳能充电控制器\

MPPT SOLAR CHARGE CONTROLLER

电池 \ BATTERY TYPE



保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大充电电流 Max.Charging Current	系统电压 System Voltage	充电模式 Charge mode	液晶显示器 LCD indicator	最大光伏输入电压 Max.PV input voltage	电池类型\ Battery type
MPPT12/24-20D	20A	12/24V 自动转换 12/24V Auto.switch	MPPT	光伏电压；电池电压；光伏总充电量；光伏总放电量；恒压充电设置；低压断开设置；低压重连设置 PV voltage;battery voltage;Total PV charge Ah; Total PV discharge Ah; the setting of constant voltage charging;the setting of low voltage disconnect;the setting of low voltage reconnect	≤50V	胶体电池，AGM电池及其他类型的铅酸电池，锂电池（需出厂前设置） Gel, AGM, other Lead acid battery
MPPT12/24-30D	30A					

MPPT太阳能充电控制器\

MPPT SOLAR CHARGE CONTROLLER

电池 \ BATTERY TYPE



保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大充电电流 Max.Charging Current	系统电压 System Voltage	充电模式 Charge mode	液晶显示器 LCD indicator	最大光伏输入电压 Max.PV input voltage	电池类型\ Battery type
MPPT24-40D	40A	24V	MPPT	光伏电压；电池电压；光伏总充电量；光伏总放电量；恒压充电设置；低压断开设置；低压重连设置 PV voltage;battery voltage;Total PV charge Ah; Total PV discharge Ah; the setting of constant voltage charging;the setting of low voltage disconnect;the setting of low voltage reconnect	≤50V	胶体电池，AGM电池及其他类型的铅酸电池，锂电池（需出厂前设置） Gel, AGM, other Lead acid battery
MPPT24-50D	50A					
MPPT24-60D	60A					

MPPT太阳能充电控制器\

MPPT SOLAR CHARGE CONTROLLER

电池 \ BATTERY TYPE



保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大充电电流 Max.Charging Current	系统电压 System Voltage	充电模式 Charge mode	液晶显示器 LCD indicator	最大光伏输入电压 Max.PV input voltage	电池类型\ Battery type
MPPT24-80D	80A	24V	MPPT	光伏电压；电池电压；光伏总充电量；光伏总放电量；恒压充电设置；低压断开设置；低压重连设置 PV voltage;battery voltage;Total PV charge Ah; Total PV discharge Ah; the setting of constant voltage charging;the setting of low voltage disconnect;the setting of low voltage reconnect	≤50V	胶体电池，AGM电池及其他类型的铅酸电池，锂电池（需出厂前设置） Gel, AGM, other Lead acid battery

SCI400/600

离网太阳能发电系统\

OFF GRID SOLAR POWER SYSTEM

保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大PV功率 Max.PV	太阳能充电控制器 Solar Charge Controller	电池 Battery	逆变器 Power Inverter	功能 Function	保护 Protection
SCI400	100W~1000W	PWM: 12/24V-40A, MPPT:12/24V-30A, 24V/40A	100Ah/150Ah/200Ah	400W纯正弦波逆变器 pure sine wave inverter	USB 5V2.1A , 液晶显示屏\ LCD Display	过充、过放电、过载、短路、反接、过温等电气保护 Over charge, over discharge, overload, short circuit, solar panel and battery reverse polarity, over temperature protection
SCI600				600W纯正弦波逆变器 pure sine wave inverter		

SCI1000/2000/3000

离网太阳能发电系统\

OFF GRID SOLAR POWER SYSTEM

保护功能 \ DESIGNED FOR SAFETY



产品参数 \ Product parameters

型号 Model	最大PV功率 Max.PV	太阳能充电控制器 Solar Charge Controller	电池 Battery	逆变器 Power Inverter	功能 Function	保护 Protection
SCI1000	1000W~4000W (optional)	PWM: 12/24V-80A, 24/48V-80A MPPT:24V/80A, 48V/60A	100Ah/150Ah/200Ah (optional)	1000W纯正弦波逆变器 pure sine wave inverter	USB 5V2.1A , 液晶显示屏\ LCD Display	过充、过放电、过载、短路、反接、过温等电气保护 Over charge, over discharge, overload, short circuit, solar panel and battery reverse polarity, over temperature protection
SCI2000				2000W纯正弦波逆变器 pure sine wave inverter		
SCI3000				3000W纯正弦波逆变器 pure sine wave inverter		

SCI5000

离网太阳能发电系统\ OFF GRID SOLAR POWER SYSTEM

保护功能 \ DESIGNED FOR SAFETY

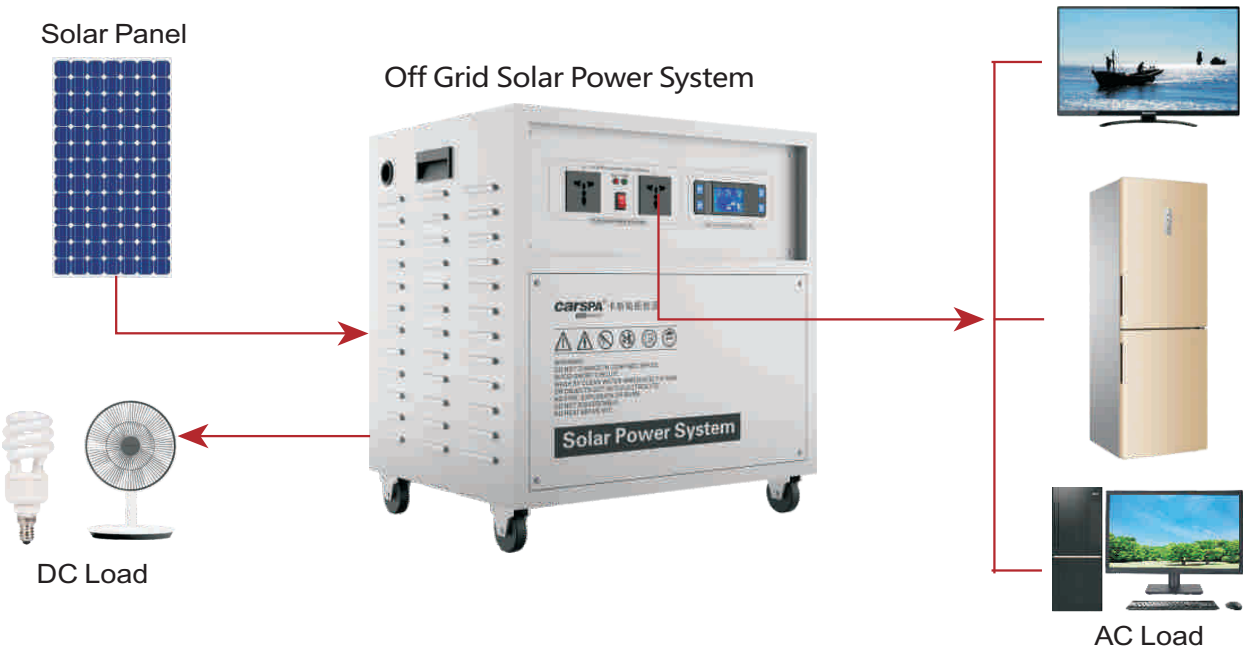


产品参数 \ Product parameters

型号 Model	最大PV功率 Max.PV	太阳能充电控制器 Solar Charge Controller	电池 Battery	逆变器 Power Inverter	功能 Function	保护 Protection
SCI5000	5000W	MPPT: 48V/80A	100Ah/ 150Ah/ 200Ah (optional)	5000W纯正弦波逆变器 pure sine wave inverter	USB 5V2.1A , 液晶显示屏\ LCD Display	过充、过放电、过载、短路、反接、过温等电气保护 Over charge, over discharge, overload, short circuit, solar panel and battery reverse polarity, over temperature protection

主要功能 \ Function

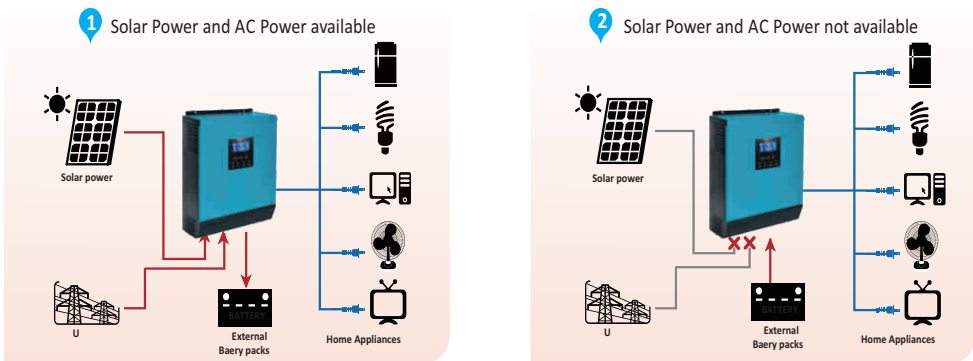
- *可移动太阳能系统，适用于更多场景\ Movable solar system for more applications.
- *为稳定的生活和工作提供备用电源\ Back up power for a steady life and work.
- *操作简单，接线方便\ Easy connection and operation.



KS1K/2K/3K/4K/5K

壁挂式太阳能系统 (PWM型) \ Wall mounted solar inverter with AC charger and PWM solar charger

主要功能 \ Function



- 纯正弦波逆变器\ Pure sine wave inverter
- 可设置输入电压范围\ Selectable input voltage range for home appliances
- 可根据应用设置充电电流\ Selectable charging current based on applications
- 可通过LCD配置交流/太阳能输入优先级\ Configurable AC/Solar input priority via LCD setting
- 交流电恢复后自动重启\ Auto restart while AC is recovering
- 过载和短路保护设计\ Overload and short circuit protection
- 智能电池充电设计，优化电池性能\ Smart battery charger design for optimized battery performance
- 冷启动功能\ Cold start function
- 远程控制面板 (选配) \ Remote panel available(optional)
- 并联运行，最多6台机组 (仅适用于4kVA/5kVA) \ Parallel operation with up to 6 units(available for4KVA/5KVA)

产品参数 \ Product parameters

型号\Model	KS1K		KS2K		KS3K		KS4K		KS5K			
额定功率\Rated power	1000 VA/800 W		2000VA/1600 W		3000VA/2400 W		4000VA/3200 W		5000VA/4000W			
输入端\Input												
电压\Voltage	230 VAC											
可选电压\Selectable voltage	170-280VAC交流电压（用于个人电脑For Personal Computer） 90-280 VAC（家用电器For Home Appliance）											
频率\Frequency	50Hz赫兹/60Hz赫兹（自动感应Auto sensing）											
输出端\Output												
交流电压调节（电池模式）\AC voltage regulation	230VAC±5%											
峰值功率\Surge power	2000VA		4000VA		6000VA		8000VA		10000VA			
效率（峰值）\Efficiency(Max.)	90%		93%									
切换时间\Transfer time	10 ms（个人电脑PC）20 ms（家用电器Home Appliance）											
波形\Waveform	纯正弦波Pure sine wave											
电池\Battery												
蓄电池电压\Battery voltage	24VDC直流					48VDC直流						
浮充电压\Floating charge voltage	27VDC直流					54VDC直流						
过充保护电压\Overcharge protection voltage	31VDC直流					60VDC直流						
太阳能充电器和交流充电器\Solar charger & ac charger												
最大光伏开路电压\Maximum PV array open circuit voltage	60VDC直流					105VDC直流						
待机功耗\Standby power consumption	2W					2W						
最大太阳能充电电流\Maximum solar charge current	50A					50A						
最大交流充电电流\Maximum ac charge current	30A					60A						
最大充电电流\Maximum charge current	50A					110A						
尺寸D x W x H（mm）\Dimension	105 x 272 x 380					120 x 295 x 468						
净重（kg）\Net weight	6,2		6.4		6.7		9.8		9.8			
环境湿度\Humidity	5%-95%相对湿度（非冷凝）Relative Humidity(Non-condensing)											
工作温度\Operating temperature	0℃ - 55℃											
储存温度\Storage temperature	-15℃-60℃											

MKS1K/2K/3K/4K/5K

壁挂式太阳能系统 (MPPT型) \

Wall mounted solar inverter with AC charger and MPPT solar charger

主要功能 \Function

- 纯正弦波逆变器\ Pure sine wave inverter
- 内置MPPT太阳能充电控制器\ Built-in MPPT solar charge controller
- 可设置输入电压范围\ Selectable input voltage range for home appliances
- 可根据应用设置充电电流\ Selectable charging current based on applications
- 可通过LCD配置交流/太阳能输入优先级\ Configurable AC/Solar input priority via LCD setting
- 交流电恢复后自动重启\ Auto restart while AC is recovering
- 过载和短路保护设计\ Overload and short circuit protection
- 智能电池充电设计，优化电池性能\ Smart battery charger design for optimized battery performance
- 冷启动功能\ Cold start function
- 远程控制面板（选配）\ Remote panel available(optional)
- 并联运行，最多6台机组（仅适用于4kVA/5kVA）\ Parallel operation with up to 6 units(available for4KVA/5KVA)

产品参数 \Product parameters

型号\Model	KS1K		KS2K	KS3K	KS4K	KS5K
额定功率\Rated power	1000 VA/800 W		2000VA/1600 W	3000VA/2400 W	4000VA/3200 W	5000VA/4000W
输入端\Input						
电压\Voltage	230 VAC					
可选电压\Selectable voltage	170-280VAC交流电压（用于个人电脑For Personal Computer） 90-280 VAC（家用电器For Home Appliance）					
频率\Frequency	50Hz赫兹/60Hz赫兹（自动感应Auto sensing）					
输出端\Output						
交流电压调节（电池模式）\AC voltage regulation	230VAC±5%					
峰值功率\Surge power	2000VA	4000VA	6000VA	8000VA	10000VA	
效率（峰值）\Efficiency(Max.)	90-93%	93%				
切换时间\Transfer time	10 ms（个人电脑PC）20ms（家用电器Home Appliance）					
波形\Waveform	纯正弦波Pure sine wave					
电池\Battery						
蓄电池电压\Battery voltage	24VDC直流			48VDC直流		
浮充电压\Floating charge voltage	27VDC直流			54VDC直流		
过充保护电压\Overcharge protection voltage	31VDC直流			60VDC直流		
太阳能充电器和交流充电器\Solar charger & ac charger						
最大光伏开路电压\Maximum PV array open circuit voltage	600W			3000 W		
MPPT工作电压\Operating voltage	30VDC~66VDC			60VD~115VDC		
最大光伏开路电压\Maximum pv array open Circuit voltage	75VDC直流			145VDC直流		
最大太阳能充电电流\Maximum solar charge current	25A	25A	25A	60A		
最大交流电流\Maximum AC charge current	20A	30A	30A	60A		
最大充电电流\Maximum charge current	25A	30A	30A	120A		
	交流充电器和太阳能充电器不能同时工作\AC charger and solar charger can't work at the same time.					
最大效率\Maximum efficiency	98%					
待机功耗\Standby power consumption	2 W					
尺寸D x W x H（mm）\Dimension	105 x 272 x 380			120×295×468		
净重（kg）\Net weight	6,8	7.0	7.4	11	11	
环境湿度\Humidity	5%-95%相对湿度（非冷凝）Relative Humidity(Non-condensing)					
工作温度\Operating temperature	0°C - 55°C					
储存温度\Storage temperature	-15°C-60°C					



光伏连接器\Photovoltaic Connector

SMC4



SMC4Y



PV Cable



SMC3Y



SMC3



PV Cable



SMC4-1Y



PV Junction Box



SMC4-2Y



PV Junction Box



SMC4-3Y



PV Cable Hanger



SMC4-4Y



插头类型\Plug



CRP001-USA



CRP002-Australia



CRP003-Universal



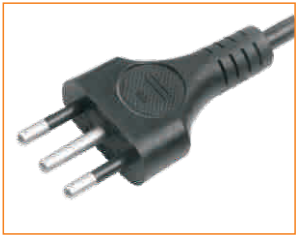
CRP004-Small Europe type



CRP005-UK



CRP006-France & Germany



CRP007-Italy



CRP008-South Africa

插座类型\Socket



CR001-A-USA



CR002-B-Australia



CR003-C-Universal



CR005-D-Europe+USA+Japan



CR006-E-UK



CR008-F-France



CR009-G-Germany



CR010-H-Brazil



CR011-I-Israel



CR013-J-Argentina



CR014-K-Small European



CR015-L-Denmark



CR016-M-Europe+Italy



CR017-N-South Africa