



NO: 13040503.0241.02

DJSF3366
静止式直流电能表
Static DC energy meter

PA 2023E412-44



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危险和警告 Danger and Warning

在进行安装、操作或者维护此设备之前，请仔细阅读本手册，先通过本手册逐步熟悉设备。本文件不是一本适用于未受训者的操作手册，在其正常使用范围之外所引起的问题，本公司概不负责。

Before installing, operating, or maintaining this device, please read this manual carefully and gradually familiarize yourself with the equipment through this manual. This document is not an operating manual suitable for untrained individuals, and our company is not responsible for any issues arising outside of its normal usage scope.



触电、燃烧或者爆炸的危险 Danger of electric shock, combustion, or explosion

- 本设备部分存在电力危险，请严格按照规范进行作业。
- There is an electrical hazard in some parts of this equipment, please strictly follow the specifications for operation.
- 在维护和检修之前，设备必须断电并接地。
- Before maintenance and overhaul, the equipment must be powered off and grounded.
- 在设备通电前，应将所有的机械部件，防护罩和防护盖等恢复原位。
- Before powering on the equipment, all mechanical components, protective covers, and covers should be restored to their original positions.
- 设备维护和安装工作只能由有资质的人员执行。
- Equipment maintenance and installation work can only be carried out by qualified personnel.

若不注意这些预防措施可能会引起严重伤害。

If these preventive measures are not taken seriously, it may cause serious injury.

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第一章 产品介绍 Chapter 1 Product Introduction

1.1 概述 Overview

DJSF3366静止式直流电能表主要针对充电桩直流计量应用开发，可测量直流电压、电流、功率；可计量电能；具有复费率功能；配备一路RS-485通信接口和一路脉冲输出接口，支持DL/T645-2007通讯协议和DL/T698.45部分协议及扩展协议。

The DJSF3366 static DC energy meter is mainly developed for DC metering applications at charging stations, and can measure DC voltage, current, and power; Measurable electrical energy; Having the function of multiple fee rates; Equipped with one RS-485 communication interface and one pulse output interface, supporting DL/T645-2007 communication protocol and DL/T698.45 partial protocols and extension protocols.

本仪表采用了高精度采样计量单元和高速MCU数据处理单元，可实现高精度宽范围准确计量和快速数据分析；采用非易失存储器存储各类数据，可长时间保存数据且掉电不丢失。

This instrument adopts high-precision sampling measurement unit and high-speed MCU data processing unit, which can achieve high-precision, wide range accurate measurement and fast data analysis; The non-volatile memory is used to store all kinds of data, which can save the data for a long time and will not be lost after power failure.

1.2 相关技术标准 Relevant technical standards

《GB/T 29318-2012 电动汽车非车载充电机电能计量》

"GB/T 29318-2012 Electric Vehicle non-vehicle charging machine energy Measurement"

《JJG 1149-2022 电动汽车非车载充电机（试行）》

"JJG 1149-2022 Electric Vehicle Non-on-board Charger (Trial)"

《GB/T 33708-2017 静止式直流电能表》

"GB/T 33708-2017 Static DC Energy Meter"

1.3 型号说明 Model Description

型号 model	功能 function
DJSF3366	直流测量与计量，电能脉冲、秒脉冲输出，RS485 通信 DC measurement and metering, electric energy pulse and second pulse output, RS485 communication

1.4 功能介绍 Function Introduction

1.4.1 电能计量 Electricity metering

- 有功电能计量，具有正反向有功电能计量和分时电能计量功能。

Active energy metering has the functions of forward and reverse active energy metering and time-sharing energy metering.

- 存储最近 100 次充电能量。

Store the energy from the last 100 charges.

- 在电能表工作电源断电情况下，电能表数据可保存 10 年，其他数据至少保存 3 年。

In the event of a power outage in the working power supply of the energy meter, the data of the energy meter can be saved for 10 years, and other data can be saved for at least 3 years.

- 支持尖、峰、平、谷四个费率，具有两套费率时段表，可在指定时间进行切换。

Supports four rates: sharp, peak, flat, and valley, with two sets of rate schedules that can be switched at specified times.

1.4.2 瞬时量测量 Instantaneous measurement

- ✧ 可测量、显示当前电压、电流、功率。

It can measure and display the current voltage, current, and power.

1.4.3 事件记录 Event Recording

- ✧ 校时记录：记录校时总次数（不包含广播校时）、最近 10 次校时事件的操作者代码、校时前时间、校时后时间。

Time correction record: Record the total times of time correction (excluding broadcast time correction), operator code of the last 10 time correction events, time before and time after time correction.

- ✧ 编程记录：记录编程总次数，最近 10 次编程的时刻、操作者代码、编程项的数据标识。

Programming record: record the total number of programming times, the last 10 programming moments, operator code, and data identification of programming items.

- ✧ 开表盖记录：记录开表盖总次数，最近 10 次开表盖事件的发生、结束时刻以及开表盖发生时刻的电能量数据，停电期间，电能表只记最早的一次开表盖事件。

Record of opening the meter cover: Record the total number of times the meter cover has been opened, the occurrence and end times of the last 10 meter cover opening events, and the electrical energy data at the time of the opening of the meter cover. During a power outage, the electrical energy meter only records the earliest opening of the meter cover event.

- ✧ 记录最近 60 次冻结记录，包含定时冻结、瞬时冻结、时区切换冻结、时段切换冻结、整点冻结、日冻结。

Record the last 60 freezing records, including timed freezing, instantaneous freezing, time zone switching freezing, time period switching freezing, hourly freezing, and daily freezing.

1.4.4 负荷记录 Load Record

- ✧ 记录最近 288 条的负荷记录，15min 周期，记录相关负荷数据。

Record the latest 288 load records, with a 15 minute cycle, and record relevant load data.

1.4.5 通信接口 Communication Interface

- ✧ 电能表具有 1 个 RS485 通信接口，可用于参数设定和各类数据抄读。通信协议符合 DL/T 645-2007 和 DL/T698.45 部分协议及扩展协议。

The electric energy meter has one RS485 communication interface, which can be used for parameter setting and various data reading. The communication protocol complies with DL/T 645-2007 and DL/T698.45 partial protocols and extension protocols.

1.4.6 输出接口 Output Interface

- ✧ 电能脉冲输出，仪表提供有功功率脉冲输出。

Electric energy pulse output, the instrument provides active power pulse output.

- ✧ 秒信号输出：可输出时钟信号，时钟信号为秒信号。电能脉冲输出和秒信号输出共用一个输出端口，可切换输出状态。上下电后默认电脉冲输出。

Second signal output: It can output a clock signal, which is a second signal. The power pulse output and the second signal output share the same output port and can switch output states. Default electrical pulse output after power on/off.

1.4.7 风扇开关（500A 规格才有） Fan switch (only available for 500A specifications)

- ✧ 风扇启动与关闭，根据连续 5 秒低于 50℃风扇不转，连续 5 秒高于 50℃风扇转动。

The startup and shutdown of the fan means that the fan does not rotate when the temperature is lower than 50 °C for 5 seconds, and the fan starts when the temperature is higher than 50 °C for 5 seconds.

第二章 安装 Chapter 2 Installation

2.1 安装注意事项 Installation precautions

请在开始操作前阅读 Please read before starting the operation

本章包含重要的安全预防信息，在安装、服务或维护电气设备前必须遵守这些指导。仔细阅读并遵循下列安全预防指导。

This chapter contains important safety precautions that must be followed before installing, servicing, or maintaining electrical equipment. Carefully read and follow the following safety precautions.



电击，烧毁或爆炸的危险，所以只有合格的操作人员才能安装本设备。此工作应在阅读了该全部指导后开展。在进行安装，检验，测试或维护前，应断开所有的电源连接。请依照说明书中的接线说明接线，接完后要认真对接线是否正确无误。意识到潜在的危险，工作人员需佩戴保护设备，仔细检查工作接线和安装是否正确。安装或者拆除仪表时，请确认电源、待测信号源及相关电源是否完成断开。



There is a risk of electric shock, burning or explosion, so only qualified operators can install this equipment. This work should be carried out after reading all the instructions. Before installation, inspection, testing, or maintenance, all power connections should be disconnected. Please follow the wiring instructions in the manual and carefully check if the wiring is correct after connection. Realizing the potential danger, staff need to wear protective equipment and carefully check whether the work wiring and installation are correct. When installing or removing instruments, please confirm whether the power supply, signal source to be tested, and related power supplies have been disconnected.

2.2 安装信息 Installation Information

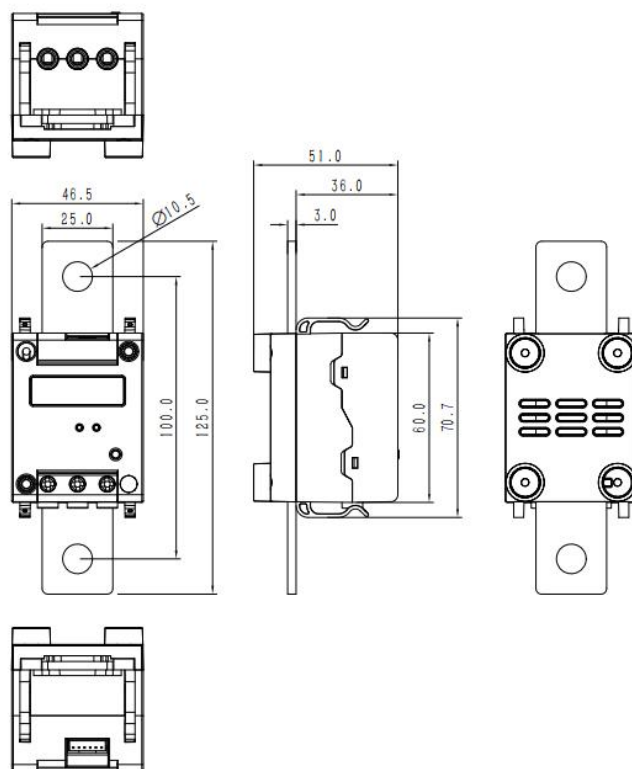
2.2.1 安装环境和位置 Installation environment and location

装置应安装在干燥、清洁、远离热源的地方，避免阳光直射。位置通常安装在柜中，可使装置不受油、污物、灰尘、腐蚀性气体或其他有害物质的侵袭。安装时要注意检修方便，有足够的空间放置有关的线、端子排、短接板和其他必要的设备。

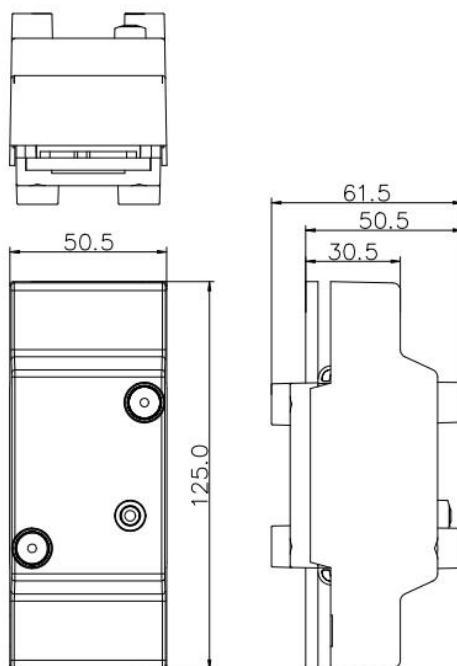
The device should be installed in a dry, clean, and away from heat sources, avoiding direct sunlight. The location is usually installed in a cabinet, which can protect the device from oil, dirt, dust, corrosive gases, or other harmful substances. During installation, attention should be paid to easy maintenance, with sufficient space to place relevant wires, terminal blocks, short circuit boards, and other necessary equipment.

2.2.2 安装尺寸（单位：mm，公差：±0.5） Installation dimensions (unit: mm, tolerance: ±0.5)

1、额定电流 100A、200A、300A 电表尺寸：Rated current 100A, 200A, 300A Meter size:



2、带透明罩尺寸：Size with transparent cover:

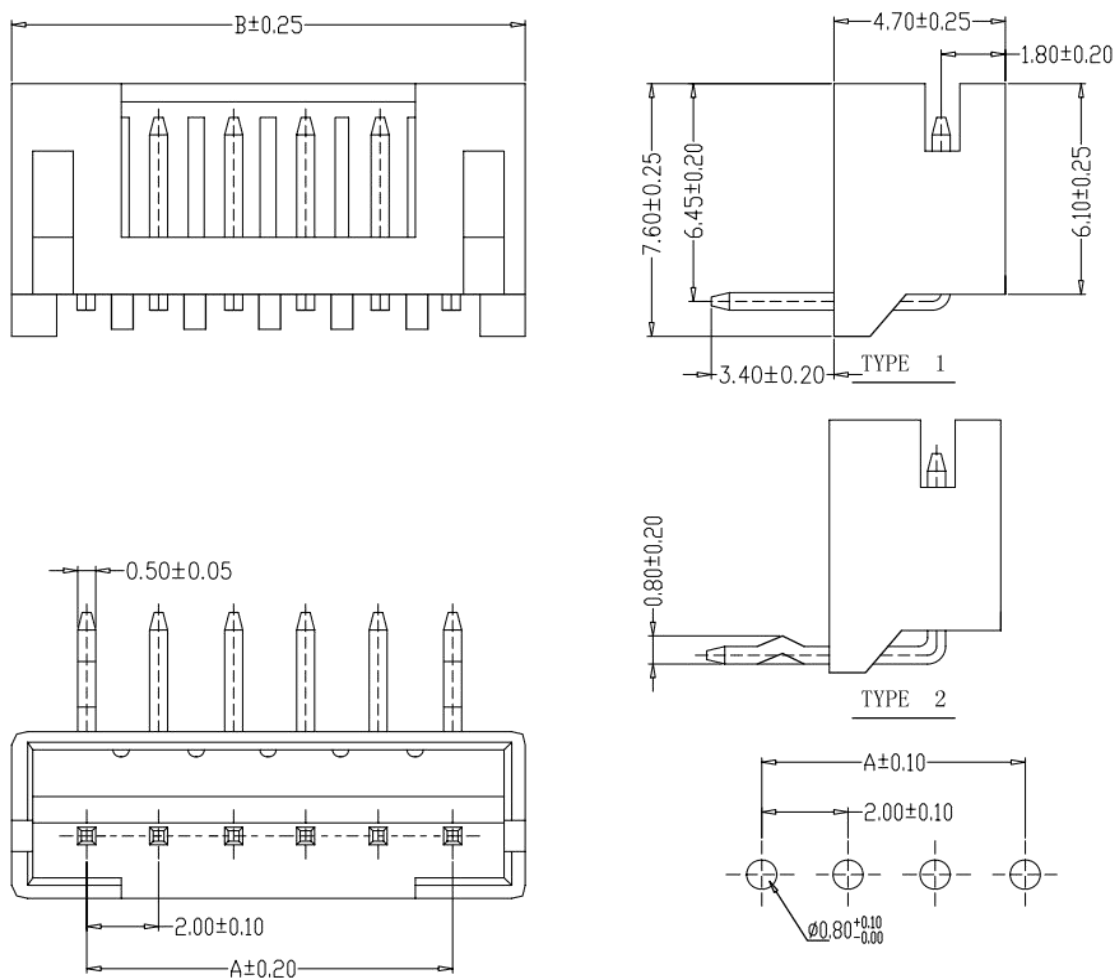


3、PH 定位弯针端子规格：PH positioning bent pin terminal specifications

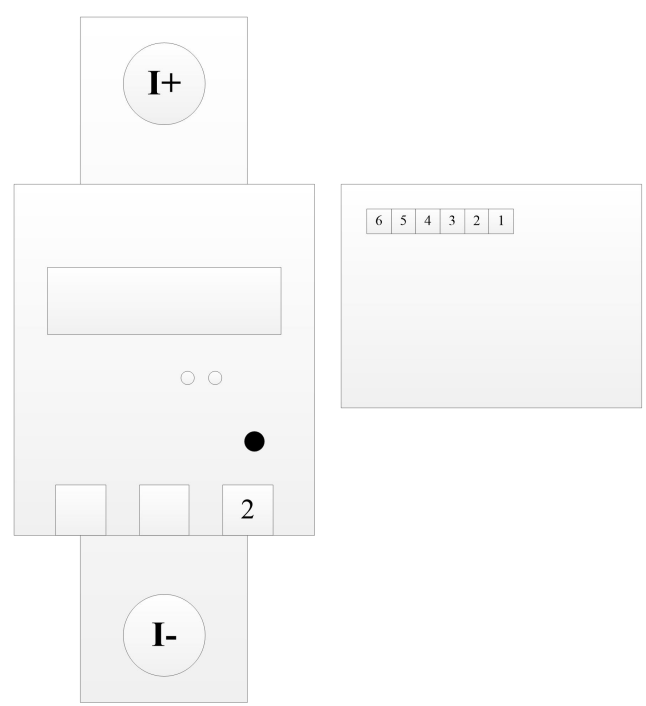
弯针端子实物图：Actual Product Image of Bent Pin Terminal



尺寸（单位：mm） A: 10.00 ， B: 14.00 Dimensions(unit: mm) A: 10.00 ， B: 14.00



2.3 端子定义 Port Definition

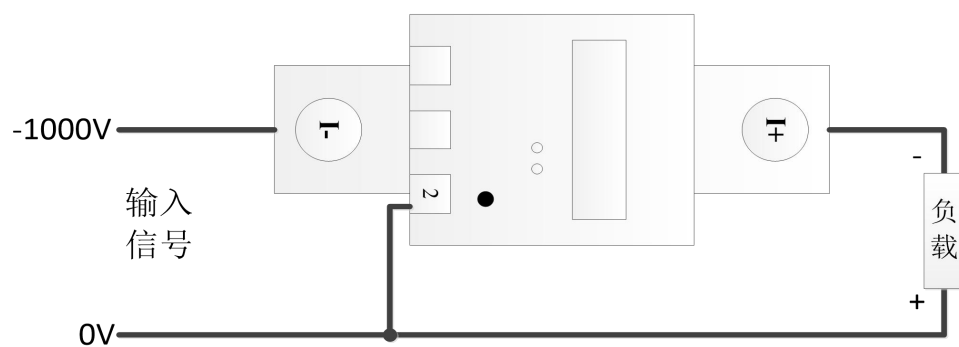


端子号 Port number	端子定义 Port definition	注释 Annotation	端子号 Port number	端子定义 Port definition	注释 Annotation
2	V+	电压采样 Voltage sampling	pin1	P+	脉冲输出+（电能脉冲/秒脉冲） Pulse output+(electric energy pulse/second pulse)
pin5	+	电源输入 power input	pin2	共地 Common ground	脉冲输出共地端 Pulse output common ground terminal
pin6	-		pin3	A	RS-485A
/	I+	电流输入 current input	pin4	B	RS-485B
/	I-				

2.4 接线示意图 Wiring Diagram

必须严格按照电表端盖上的接线图接线，应用接线如下示。

It is necessary to strictly follow the wiring diagram on the end cover of the electricity meter for wiring, and the application wiring is as follows.



接线通电后，查看显示画面，以判断接线及表计运行情况。

After the wiring is powered on, check the display screen to determine the wiring and meter operation status.

风扇接线方式（500A 规格才有）：

Fan wiring method (only available for 500A specification):

红色线为正，黑色线为负，红色线接电源输入正极 5，黑色接脉冲输出共地端 2。

The red line is positive, the black line is negative, the red line is connected to the positive pole 20 of the power input, and the black line is connected to the common ground terminal 17 of the pulse output.

第三章 使用与操作 Chapter 3 Usage and Operation

3.1 键盘定义 Keyboard Definition

电表有 1 个按键，按键可轮循显示界面。

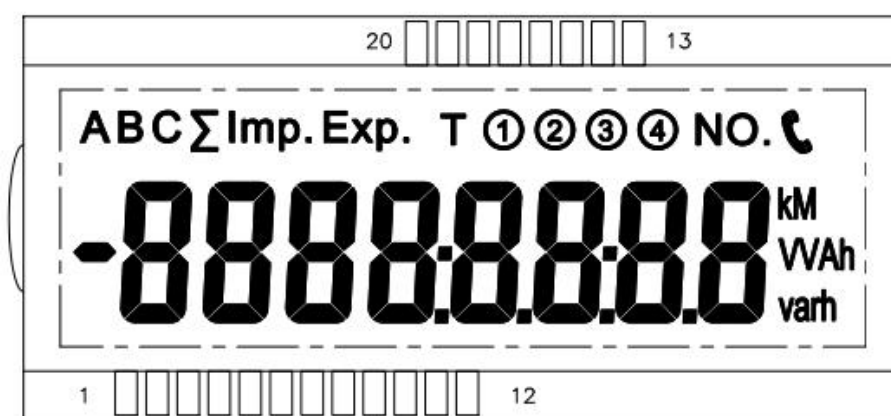
The meter has one key, which can switch the display interface in turn.

3.2 显示说明 Display Instructions

3.2.1 显示方式说明 Display Method Description

电能表采用 LCD 显示信息，液晶可视尺寸为 33.0mm(长)×10.5mm(宽)。

The electric energy meter adopts LCD display information, and the visible size of the LCD is 33.0mm (length) × 10.5mm (width).



LCD 显示界面参考图 LCD display interface reference diagram

3.2.2 显示功能说明 Display Function Description

- ✧ 采用液晶显示，显示方式分为自动循环显示和按键显示两种。

Adopting LCD display, the display mode is divided into automatic loop display and button display.

- ✧ 可显示累计电能、电压、电流、功率、表号、时间、日期等信息。

It can display accumulated electrical energy, voltage, current, power, meter number, time, date and other information.

- ✧ 电能表显示可显示 8 位，默认 2 位小数，小数位在 0~3 位之间可设置。

The electric energy meter can display 8 digits, with a default of 2 decimal places that can be set between 0 and 3 decimal places.

- ✧ 上电显示：上电时液晶全显 5S，脉冲灯上电长灭。

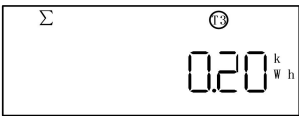
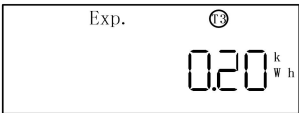
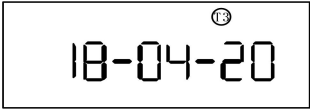
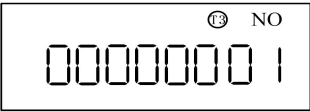
Power on display: when powered on, the liquid crystal full display is 5S, and the pulse light remains off.

- ✧ 电源与通讯指示灯（绿色，通讯时闪烁）、电能脉冲灯（红色）。

Power supply and communication indicator light (green, flashing during communication), electric energy pulse light (red).

3.2.3 数据画面说明 Data Screen Description

通过按键可切换数据画面如下：The data screen can be switched by pressing the key as follows:

序号 Serial Number	显示界面 Display interface	说明 describe
1		当前组合总电量 Current total combined electricity consumption
2		当前正向总电量 Current positive total electricity consumption
3		当前反向总电量 Current reverse total power consumption
4		电压 voltage
5		电流 electric current
6		功率 power
7		日期 date
8		时间 time
9		645 地址低 8 位 The lower 8 bits of address 645
10		645 地址高 4 位 The high-order 4 bits of address 645

第四章 技术指标 Chapter 4 Technical Indicators

4.1 测量精度 Measurement accuracy

参数 parameter	精度 accuracy
电流 electric current	0.5 级 Level 0.5
电压 voltage	0.5 级 Level 0.5
功率 power	0.5 级 Level 0.5
电能 electric energy	0.5 级 Level 0.5

0.5 级电能百分数误差极限 Error limit of level 0.5 electric energy percentage

在额定电压（Un）下，电能表的基本误差不应超过下表的误差限值 At rated voltage (Un), the basic error of the electric energy meter should not exceed the error limit in the following table	
负载电流（I）变化范围 Variation range of load current (I)	误差限值 Error limit
	0.5 级 Level 0.5
$0.01I_b \leq I < 0.05I_b$	$\pm 1.0\%$
$0.05I_b \leq I \leq 1.2I_b$	$\pm 0.5\%$

在额定电流（Ib）下，电能表的基本误差不应超过下表误差限值 At rated current (Ib), the basic error of the electric energy meter should not exceed the error limits listed in the table below	
电压（U）变化范围 Variation range of voltage (U)	误差限值 Error limit
	0.5 级 Level 0.5
$0.1U_b \leq U < 1.15U_b$	$\pm 0.5\%$

4.2 规格参数 Specification Parameters

参比电压 reference voltage	1000V	48V
电流规格：额定电流（最大电流） Current specification: rated current (maximum current)	100(120)A; 200(240)A; 300(360)A; 400(480)A; 500(600)A;	200(240)A; 300(360)A;
脉冲常数 Pulse constant	1000imp/kWh, 以实际铭牌标注为准 1000imp/kWh, based on the actual nameplate markings	
准确度等级（电能） Accuracy level (electrical energy)	0.5 级 Level 0.5	
辅助电源 Auxiliary power supply	DC10~30V	

4.3 环境条件 Environmental conditions

环境条件 environmental condition	
储藏温度: -40℃~70℃ Storage temperature:-40℃~70℃	工作温度: -25℃~60℃ Working temperature:-25℃~60℃
湿度: 20%~75% Humidity: 20%~75%	极限工作温度: -40℃~70℃ Extreme working temperature:-40℃~70℃

4.4 功耗 Power consumption

输入回路 input circuit	功耗 power consumption
电压回路 Voltage circuit	≤1W
电流回路 Current circuit	额定电流时, ≤10VA At rated current, ≤10VA
辅助电源 Auxiliary power supply	≤2W

备注: 超过产品额定范围的电压/电流值会造成仪表损坏。长时间满量程应用也会对您的设备造成损坏。我公司对于超量程导致的精度变化不予负责。

Note: Voltage/current values exceeding the rated range of the product may cause damage to the instrument. Long term full-scale application can also cause damage to your device. Our company is not responsible for accuracy changes caused by over range.

4.5 通讯 Communication

通讯参数 Communication parameters	
通讯端口: RS485, 2线半双工 Communication port: RS485, 2-wire half duplex	通讯波特率: 1200bps、2400bps、4800bps、9600bps、19200bps、38400bps、115200bps 可选, 默认 38400bps, 如另有要求, 以实际产品为准 Communication baud rates:1200bps、2400bps、4800bps、9600bps、19200bps、38400bps、115200bps optional, default 38400bps, If there are other requirements, the actual product shall prevail.
校验位: 无/奇/偶可选 Parity: None/Odd/Even optional	默认偶校验 Default even verification
通讯地址 communication address	DL/T645-2007 通讯地址为 12 位 BCD 码 DL/T645-2007 communication address is a 12 digit BCD code
通讯协议 Communication protocol	遵循 DL/T645-2007、DL/T698.45 Follow DL/T645-2007 and DL/T698.45

4.6 潜动、起动 Creeping and starting

潜动、起动 Creeping and starting	
潜动 Creeping	当电能表施加参比电压的 115%而电流线路无电流时, 电能表在规定的时间内测试输出不应产生多于一个的脉冲 When the energy meter applies 115% of the reference voltage and there is no current in the current circuit, the energy meter should not produce more than one pulse in the test output within the specified time

起动 starting	在 U_{min} 条件下，负载电流升到 0.003I _b 后，电能表在规定的时间内应有脉冲输出或代表电能输出 Under U_{min} conditions, after the load current rises to 0.003I _b , the energy meter should have pulse output or representative energy output within the specified time
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4.7 电气特性 Electrical Characteristics

电气特性 Electrical characteristics	
绝缘电阻 Insulation resistance	500M Ω /500V 电流、电压输入对其他端口或外壳 500M Ω /500V current and voltage input to other ports or enclosures
工频耐压 Power frequency withstand voltage	4.4kV (r.m.s) , 50Hz, 1min 电流、电压输入对其他端口 4.4kV (r.m.s), 50Hz, 1min current and voltage input to other ports
冲击耐压 impulse withstand voltage	± 6 kV 电流、电压输入对其他端口 ± 6 kV current and voltage input to other ports

4.8 电磁兼容 Electromagnetic compatibility

电磁兼容 electromagnetic compatibility	
电快速瞬变脉冲群抗扰度试验 Electrical Fast Transient Pulse Swarm Immunity Test	执行标准 GB/T 17626.4; IEC 61000-4-4 等级: IV级 (脉冲、通信端口 2kV, 电压输入端口 4kV) Executive standard GB/T 17626.4; IEC 61000-4-4 Level: Level IV (pulse, communication port 2kV, voltage input port 4kV)
静电放电抗扰度试验 Electrostatic discharge immunity test	执行标准 GB/T 17626.2; IEC 61000-4-2 等级: IV级 (接触放电 8kV, 空气放电 15kV) Executive standard GB/T 17626.2; IEC 61000-4-2 Level: Level IV (Contact discharge 8kV, Air discharge 15kV)
浪涌(冲击)抗扰度试验 Surge (impact) immunity test	执行标准 GB/T 17626.5; IEC 61000-4-5 等级: IV级 (电压输入端口: 共模, ± 4 kV 差模, ± 4 kV) Executive standard GB/T 17626.5; IEC 61000-4-5 Level: Level IV (Voltage Input Port: Common Mode, ± 4 kV Differential Mode, ± 4 kV)
射频电磁场辐射抗扰度试验 Radio frequency electromagnetic field radiation immunity test	执行标准 GB/T 17626.6; IEC 61000-4-3 等级: III级 (10V/m) Executive standard GB/T 17626.6; IEC 61000-4-3 Level: Level III (10V/m)
传导骚扰抗扰度 Conducted disturbance immunity	执行标准 GB/T 17626.6; IEC 61000-4-3 等级: III级 (10V) Executive standard GB/T 17626.6; IEC 61000-4-3 Level: Level III (10V)
工频磁场抗扰度 Power frequency magnetic field immunity	执行标准 GB/T 17626.8 等级: V级 (100A/m) Executive standard GB/T 17626.8 Level: Level V (100A/m)

第五章 维护和故障排除 Chapter 5 Maintenance and Troubleshooting

5.1 故障排除 Troubleshooting

可能问题 Possible issues	可能原因 Possible reasons	可能解决方案 Possible solutions
上电后无显示 No display after power on	电源未能加入到设备上 The power supply could not be connected to the device	检查设备电压输入端子上是否加入了正确的工作电压 Check if the correct operating voltage is applied to the voltage input terminal of the device
加信号后测量数据不准确或显示为 0 After adding the signal, the measurement data is inaccurate or displayed as 0	电压测量不正确 Incorrect voltage measurement	检查电压信号是否正确接入设备 Check if the voltage signal is correctly connected to the device 检查电压测量信号是否在设备测量范围内 Check if the voltage measurement signal is within the measurement range of the equipment
	电流测量不准确 Inaccurate current measurement	检查电流信号是否正确接入设备 Check if the current signal is correctly connected to the device 检查电流测量信号是否在设备测量范围内 Check if the current measurement signal is within the measurement range of the equipment
	功率测量不准确 Inaccurate power measurement	检查电压电流对应相序是否正确 Check if the phase sequence corresponding to voltage and current is correct 检查电流方向是否正确 Check if the current direction is correct
上位机不能与设备通讯 The upper computer cannot communicate with the device	通讯接线错误 Communication wiring error	检查设备通讯线是否连接正确 Check if the device communication cable is connected correctly
	通讯参数不正确 Communication parameters are incorrect	检查通讯地址是否正确 Check if the communication address is correct 检查通讯波特率是否正确 Check if the communication baud rate is correct 检查通讯校验位是否正确 Check if the communication checksum is correct
	通讯链路受影响 Communication link is affected	检查同一个通讯链路上是否有相同参数的设备 Check if there are devices with the same parameters on the same communication link 检查通讯屏蔽层是否良好接地 Check if the communication shielding layer is well grounded 检查通讯电缆是否断开 Check if the communication cable is disconnected

注：如果有一些无法解决的问题，请及时与我们公司的售后服务部门联系。

Note: If there are some unsolvable problems, please contact our company's after-sales service department in a timely manner.

第六章 质量保证 Chapter 6 Quality Assurance

6.1 质量保证 Quality Assurance

所有售给用户的新仪表，在通电运行后 12 个月或收到货后 18 个月内，对其因设计、材料和工艺引起的故障实行免费质量保证，如经认定产品符合上述质保条件，我公司负责免费维修。

For all new instruments sold to users, we will provide free quality assurance for their failures caused by design, materials and technology within 12 months after power on or 18 months after receiving the goods. If the products are found to meet the above warranty conditions, our company will be responsible for free maintenance.

6.2 质量限制 Quality Limitations

以下装置的问题不属免费质保范围： The following device issues are not covered by the free warranty:

- 由于不正确的安装、使用、存储引起的损坏。

Damage caused by incorrect installation, use, and storage.

- 超出产品规定的非正常操作和应用条件。

Abnormal operation and application conditions beyond the product usage regulations.

- 由非本公司授权的机构或人修理了的仪表。

Instruments repaired by organizations or individuals not authorized by our company.

- 超出免费质保年限了的仪表。

Instruments that have exceeded the free warranty period.

注：以上图片仅供参考，产品以实物为准。

Note: the above pictures are for reference only, and the products are subject to the real objects.



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