100A WiFi Smart Three Phase Energy Meter&Protector User's Manual



Tuya Smart Smart Life

Main Functions:

1. Over Voltage Protection
2. Under Voltage Protection
3. Over Current Protection
4. Under Current Protection
5. Delay Protection
6. Timer Switch
7. Bidirectional Energy Monitor
8. Voltage Imbalance Protection(Can only be set on App)
9. Current Imbalance Protection(Can only be set on App)
10. Shortage Phase Protection(Can only be set on App)
11. Phase Sequence Protection(Can only be set on App)
12. High Temperature Protection(Can only be set on App)
13. Current Leakage Protection(This function must be used with out or built-in current transformer)

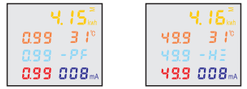
Each parameter can be set with action threshold and On/Off.

1. Display Mode

Mode 1



- U - Voltage, Total Electricity Consumption
- A - Current, Forward Electricity Consumption
- P - Power, Reverse Electricity Consumption



Power, Factor Total Electricity Consumption

Frequency, Total Electricity Consumption

Mode 2



A-Phase Power Parameters | B-Phase Power Parameters | C-Phase Power Parameters



A-Phase Parameters & Temperature | B-Phase Parameters & Temperature | C-Phase Parameters & Temperature

2. Fault Records:

Record over & under voltage, over & under current, current leakage, voltage imbalance, current imbalance, and phase sequence protection.Note:Tuya app records.

3. WiFi Indicator Light Status:

1. Fast flashing indicates searching for WiFi signal
2. Slow flashing indicates WiFi offline status
3. Long light indicates that WiFi is connected

4. Fault Settings:

Long press ⚙ key to enter the settings states and show the settings

↓

Change the settings by prese ∧ ∨ keys

↓

Short press OK key to confirm the settings on this page and jump to the next settings page

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Long press OK key to exit the settings states and save the settings

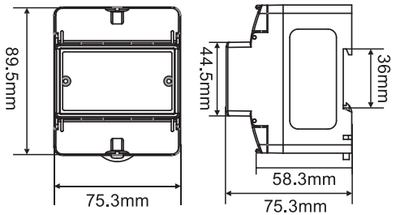
5. Installation and Usage Conditions:

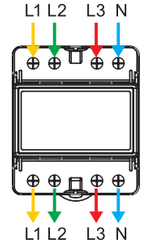
1. Working Temperature:-30℃-70℃
2. Working Humidity:≤85%
3. Working Altitude:Not Exceeding 2000m
4. Pollution Level:Level 3
5. Modular design appearance and din rail installation
6. Wiring Capacity:Insulated copper wire uner 35mm²

6. Notes:

1. This product has no isolation function. Please turn off the power before repairing.
2. The zero line (Neutral N line) of this product is directly connected without any disconnection function.
3. The device must be wired according to the markings and must be installed correctly.
4. Although this device has protection function, but it cannot replace normal circuit breaker, so please install circuit breaker before this device as always.
5. Please tighten the clamp screws hard to avoid the device being damaged caught by poor contact.

7. Installation Wiring & Dimensions:



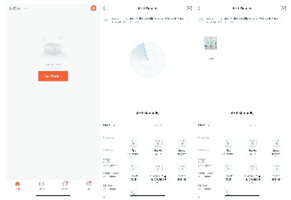


Function	Set Parameter Range	Factory Default Settings	Function Description
Over Voltage Limit	120V-300V	275V	If the over voltage limit is set at 300V, when the voltage is over 300V, the device will automatically switch off.
Under Voltage Limit	80-210V	175V	If the under voltage limit is set at 80V, when the voltage is under 80V, the device will automatically switch off.
Under & Over Voltage Protection Delay	1-9999Second(S)	3s	If the voltage is over or under the set value, the device will automatically switch off after the set delay time.
Over & Under Voltage Protection Recovery Time	1-9999Second(S)	20s	If the voltage is over or under the set value, the device will automatically switch off and when the voltage returns to normal value it will recover after the set delay time.
Over Current Limit	1.0-100.0A	80.0A	If the over current limit is set at 80A, the device will automatically switch off when the current is over 80A.
Over & Under Current Protection Delay	0000-9999Second(S)	5s	If the current is over or under the set value, the device will automatically switch off after the set delay time.

Function	Set Parameter Range	Factory Default Settings	Function Description
Over & Under Current Protection Recovery Time	0000-9999Second(S)	20s	If the current is over or under the set value, the device will automatically switch off and when the current returns to normal value it will recover after the set delay time.
Under Current Limit	1.0-100.0A	10.0A	If the under current limit is set at 60A, the device will automatically switch off when the current is under 60A.
Current Leakage Limit	10-100mA	30mA	If the current leakage limit is set at 30mA, the device will automatically switch off when the current leakage is over 30mA.
Display Mode	Display Mode 1 Display Mode 2	Display Mode 1	Default Display Mode 1 , refer to page 3 (Display Mode)
Energy Consumption Zero Clearing		Default OFF	OFF/On
Factory Settings Reset		Default OFF	OFF/On

HOW TOADD DEVCETOAPP

1. Use your smart phone to scan QR codes, or search "Smart Life" or "Tuya Smart" app in Google play or APP Store to download and instal.
2. Create an account with your mobile number.
3. Connect you mobile to your Wi-Fi router. Click "+" inthe upper right conner of homepage or click "Adddevice" then select breaker "Switch module (Wi-Fi)" from "Energy", long press WiFi button for 5 seconds, after the WiFi indicators starts to flash quickly, open app to pair.

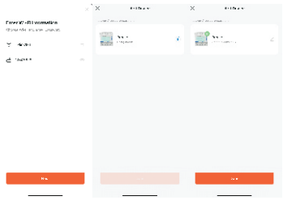


PROOUCT PARAMETERS

Rated Supply Vottage:AC380V
Operation Voltage Range:AC80V-400(Single Phase)
Rated Frequency:50/60Hz
Rated Current:1-100A
Power Display Range:0-99999.9kw/h
Operating Temperature:-30℃ to 70℃
Protection Trip Action Time:<0.5s

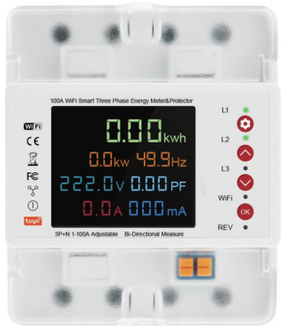
Setting Range:
Over Voltage(>U):120-300V
Under Voltage(<U):80-210V

Over Current & Leakae Protection
Current Leakage:10-99mA/OFF
Reset / Start Delay:0s-9999s
Protect Times:1-30 times/off



Smart Life
Google play
Tuya Smart
App Store

100A WiFi智能三相电能表保护器
用户手册



tuya Tuya Smart Smart Life

主要功能:

1. 过压保护
2. 欠压保护
3. 过流保护
4. 欠流保护
5. 延时保护
6. 时控开关
7. 双向用电量监测
8. 电压不平衡保护(仅在APP端可设置)
9. 电流不平衡保护(仅在APP端可设置)
10. 缺相保护(仅在APP端可设置)
11. 相序保护(仅在APP端可设置)
12. 高温保护(仅在APP端可设置)
13. 漏电保护(需搭配内置或外置互感器使用)

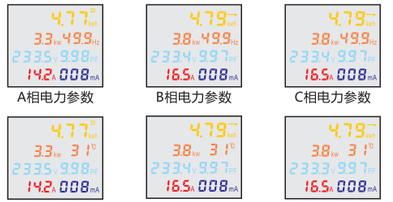
每个参数可设置动作阈值和开/关。

1.显示模式

模式1



模式2



2.故障记录:

记录过压、欠压、过载、失流、漏电、电压不平衡、电流不平衡、相序保护。
注:涂鸦APP记录

3.WIFI指示灯状态:

1.快闪表示等待发现WIFI信号。
2.慢闪表示WIFI离线状态。
3.长亮表示WIFI已连接。

4.功能设置:

长按⚙设置键进入设置状态显示设置页面、闪烁显示设置的数据位

↓

通过△▽上下按键设置该位内容

↓

短按OK确认该页设置，跳转下一个设置页面

↓

长按OK退出设置状态，保存设置

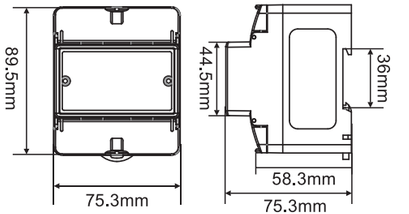
5.安装及使用条件:

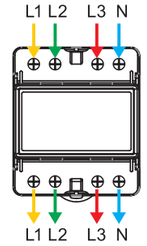
1.温度:-30℃~70℃
2.湿度:≤85%
3.海拔高度:不超过2000m
4.污染等级:3级
5.外形模数化设计，导轨式安装。
6.接线能力:35mm²及以下绝缘铜导线。

6.注意事项

1.本产品无隔离功能，维修线路时请断开前级断路器开关
2.本产品零线(N线)直接接通，无断开功能。
3.保护器必须按标志接线，不得接错。
4.本产品虽有限流保护功能但不能代替断路器，请在线路前端安装如DZ47、C65等断路器作短路保护。
5.在使用前请拧紧卡线螺钉，防止接触不良而损坏产品。

7.安装接线及尺寸:



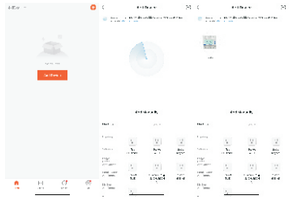


功能	设置参数范围	出厂默认设置	功能描述	
过电压限值	120V-300V	275V	H-u 0275v	如果过压限值设置为300V，当电压超过300V时，设备将自动断开。
欠压限值	80-210V	175V	L-u 0175v	如果设置欠压限值为80V，当电压低于80V时，设备将自动断开。
欠压和过压电压保护延迟	1-9999秒(S)	3秒	u-d-S 0020	如果电压超过或低于设定值，设备将在设定的延迟时间后自动断开。
过压和欠压电压保护恢复时间	1-9999秒(S)	20秒	u-r-S 0020	如果电压超过或低于设定值时，设备将自动关闭当电压恢复正常时值，则在设置的延迟时间后恢复。
过电流限值	1.0-100.0A	80.0A	H-C 0800	如果设置过电流限制为80A，当电流超过80A时，设备将自动断开。
大与小电流保护延迟	0000-9999秒(S)	5秒	C-d-S 0005	如果电流超过或低于设定值，设备将自动执行在设定的延时时间后关闭。

功能	设置参数范围	出厂默认设置	功能描述	
大与小电流保护恢复时间	0000-9999秒(S)	20秒	C-r-S 0020	如果电流超过或低于设定值，设备会自动关闭当电流恢复到正常值后，在设定的延时时间后恢复。
电流限额	1.0-100.0A	10.0A	L-C 0100	如果将欠电流限制设置为60A，当电流低于60A时，设备将自动关闭。
电流泄漏限额	10-100mA	30mA	LE 030mA	如果漏电流限制设置为30mA，则当漏电流超过30mA时，设备将自动关闭。当泄漏电流超过30mA时，设备将自动关闭。
显示模式	显示模式 1 显示模式 2	显示模式 1	d.SP-n 1	默认显示模式1，参见第3页(显示模式)
能源消耗零清除		默认关闭	CLr oFF	关/开 关/开
出厂设置重置		默认关闭	CLr oFF	关/开 关/开

如何添加应用程序

1.使用智能手机扫描二维码，或在 Google play 或 APP Store 搜索 “智能生活” 或 “涂鸦智能” 应用程序，下载并安装。
2.用您的手机号码创建一个账户。
3.将手机连接到 Wi-Fi 路由器。点击主页右上角的 “+” 或点击 “添加设备”，然后从 “能量” 中选择断路器 “开关模块（Wi-Fi）”，长按 WiFi 按钮 5 秒，WiFi 指示灯开始快速闪烁后，打开应用程序进行配对。



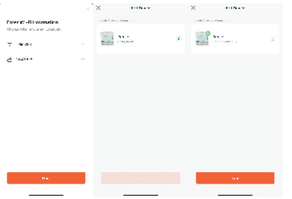
项目参数

额定电压：AC380V
额定频率：50/60Hz
功率显示范围：0-99999.9千瓦/小时
保护跳闸反应时间:<0.5 秒

工作电压范围：AC80V-400（单相）
额定电流:1-100A
工作温度：-30℃至70℃

设置范围：
过压（>U）:120-300V
欠压（<U）:80-210V

限流和漏电保护
保护时间：1-30次/关
复位/启动延迟：0秒-9999秒
漏电：10-99mA/OFF



Smart Life
Google play
Tuya Smart
App Store