POWER GUARD

STE18-B Single Phase Keypad Smart Electricity Meter

IP54 Ingress protection IP54 waterproof

Up to 8 years battery life

Remote connection/disconnection

STS STS Standard

Real-time clock

TOU Utilities can set TOU price into meter on request

Anti-Tamper Magnetic field protection

LORA-RF communication (optional)

Pay by mobile payment M-PESA, Alipay, MTN, Airtel, etc.

STE18-B is an STS Standard compliant, keypad type, automatically connection or disconnection prepaid electricity meter. It can be top up with Power Guard Vending software directly and communicate with AMI system via LORA-RF or PLC module.

Compliance with Standard

∗ ISO 9001 ; ISO 14001

∗ STS Certificated

Application:

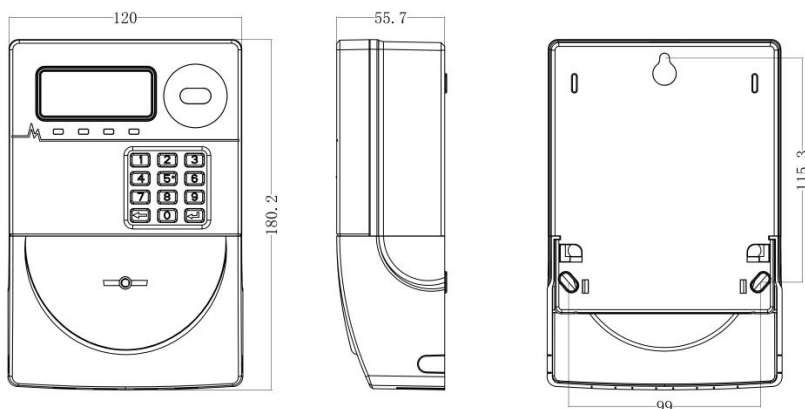Counting the electricity consumption of users over a period of time.

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Electrical Parameters

Nominal Voltage	230V
Working Voltage Range	70%~120%Un
Nominal Frequency	50-60Hz
Basic Current (Ib)	5A
Maximum Current (Imax)	80A
Starting Current (Ist)	20mA
Active Energy Constant	1000imp/kWh
Measurement Accuracy	Class 1.0
Power Consumption in Voltage Circuit	<2W <8VA
Power Consumption in Current Circuit	<1VA
Operation Temperature Range	-25℃-70℃
Storage Temperature Range	-40℃-85℃

Electric Magnetic Compatibility

AC Insulation Strength		4kV at 50Hz during 1min
Impulse voltage 1.2/50 us mains connections		8kV
Electrostatic Discharges	Contact discharge	8kV
	Air discharge	16kV
Electromagnetic RF Field	27MHz-500MHz	10V/m
	100KHz-1GHz	30V/m
Fast transient burst test		4kV
Protection		Class II

Meter Dimension

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Functions

The integrated keypad of single phase electricity meter is offered to enter recharge TOKEN and check information by short codes.

Power guard Vending software could be integrated to local Mobile Money Payment like M-PESA, Alipay, MTN, Airtel, etc.

Basic Functions

✳ Meter Recharge By Inputting TOKEN

✳ Active energy measurement

✳ MD(maximum demand measurement

✳ Auto scroll mode display

✳ Build-in relay control

✳ Event log

✳ Low Credit Alarm

Communication:

The meter is available with AMI system through LORA-RF or PLC module on request.

TOU Tariff:

Meters can be set Step Tariff by inputting corresponding TOKEN. Utilities can set step price on request.

Anti-Tamper Functions:

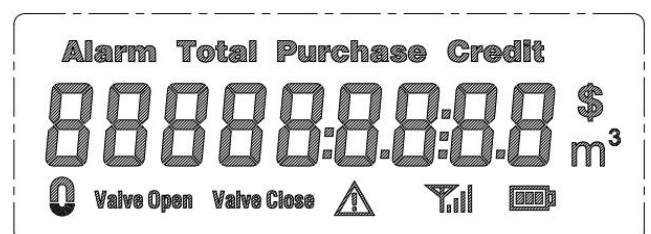Meter will automatically close the valve after detection of magnetic field and open cover event.

Overdraft Collection：

Electricity Overdraft can be collected day by day or month by month.

Information Inquiry:

Consumer could check the data like Credit Remain, Total Purchased and Total Credit by input the short code.
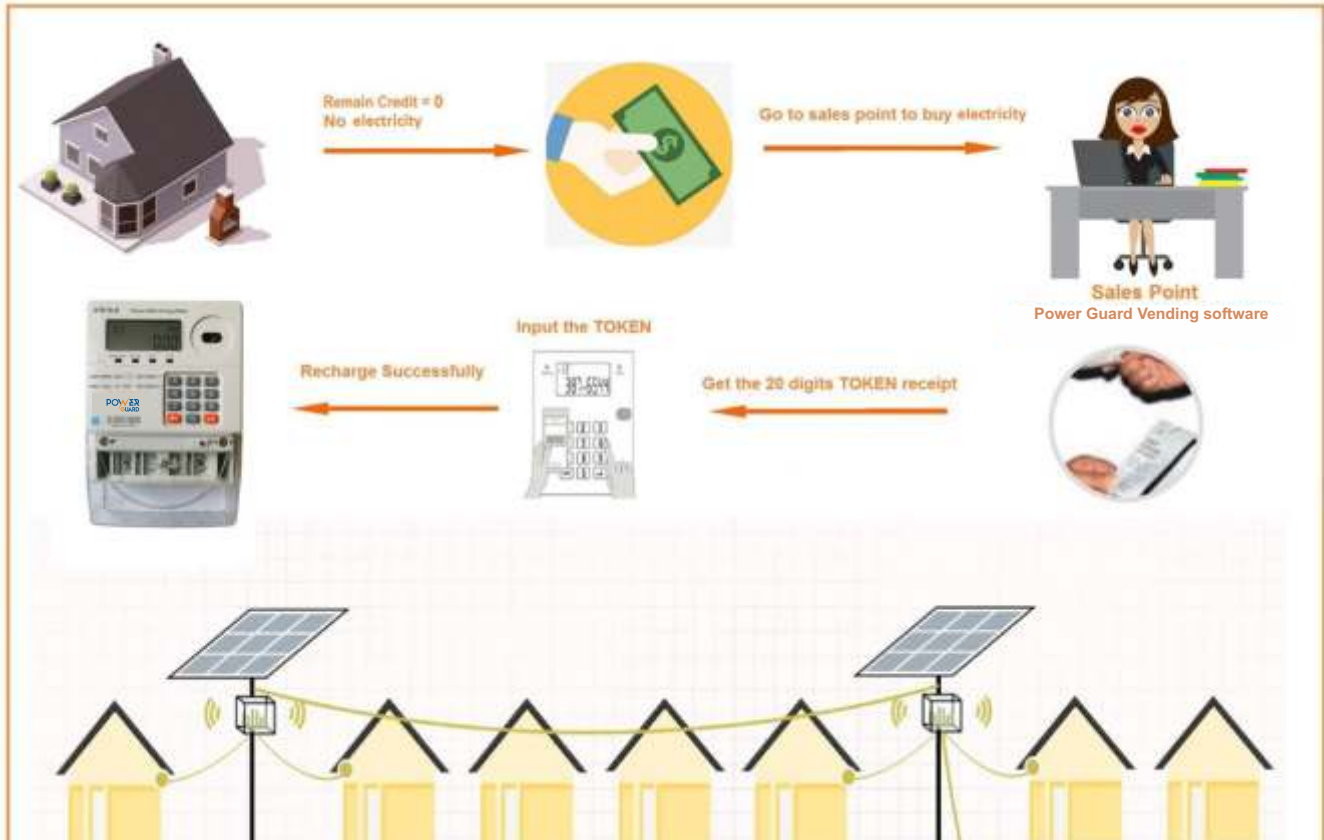
Liquid Crystal Display:

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Three solutions to recharge prepaid meter

1. **By Power guard Vending software**

   ⇨ **Via local sales point or handheld mobile vending unit**
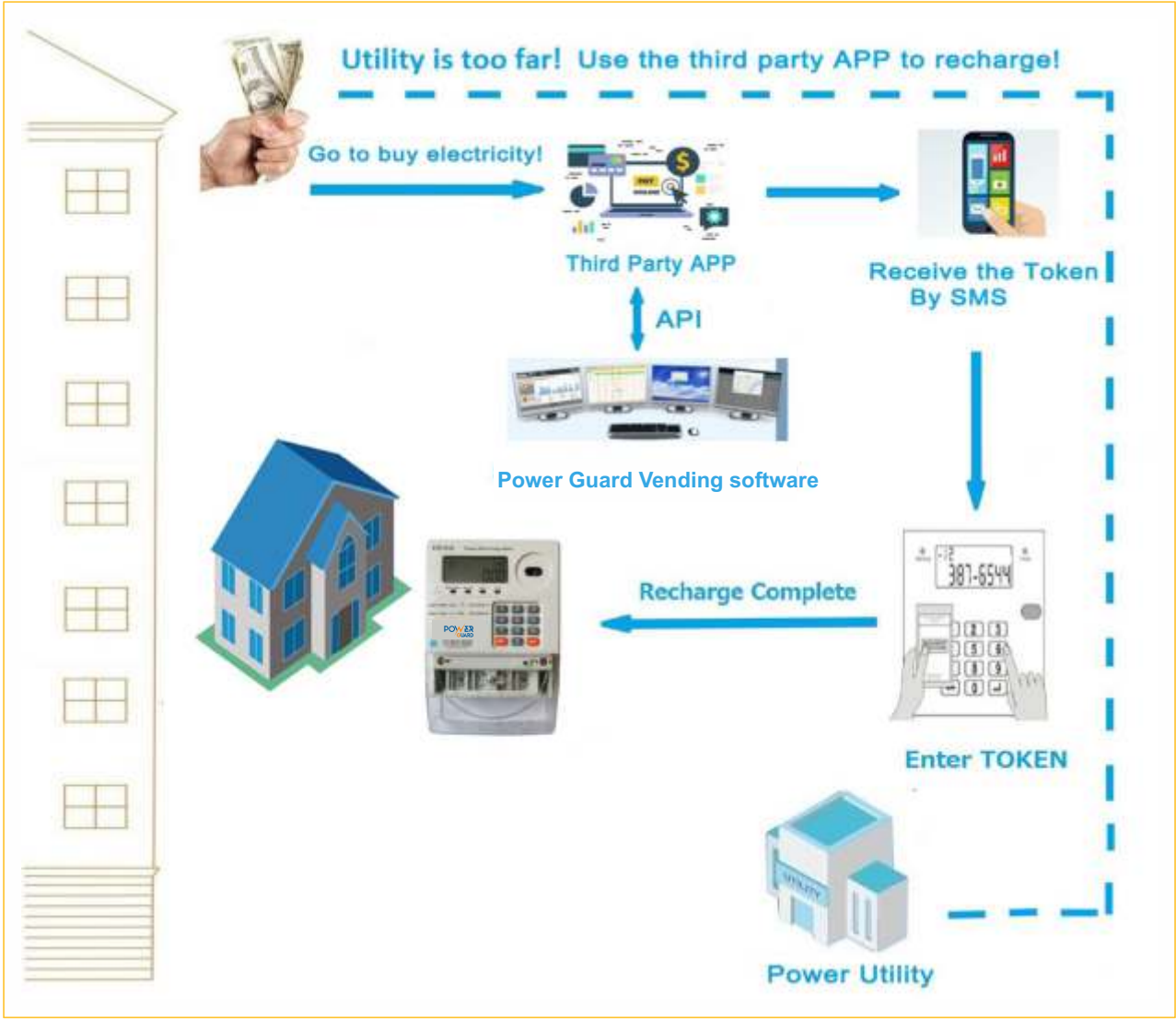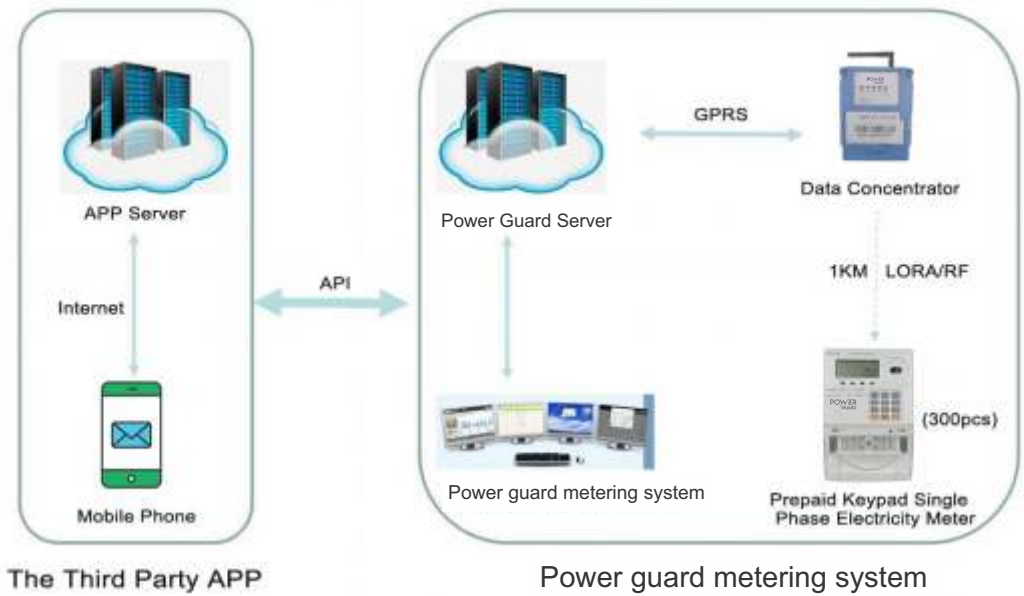

Operation of vending software

1. Login vending system
2. Meter number registration
3. Customer information registration
4. Price Setting
5. Open Account
6. Vending/Topping up meters
7. Get the Token
8. Input Token to meter with keypad
9. Recharging successfully

2. **By the third party platform or local mobile payment with API**

   ⇨ **Via mobile phone**

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API: Application Program Interface, which is the agreement connecting the third party APP and our Power guard Vending sofware

The Third Party APP

Power guard metering system

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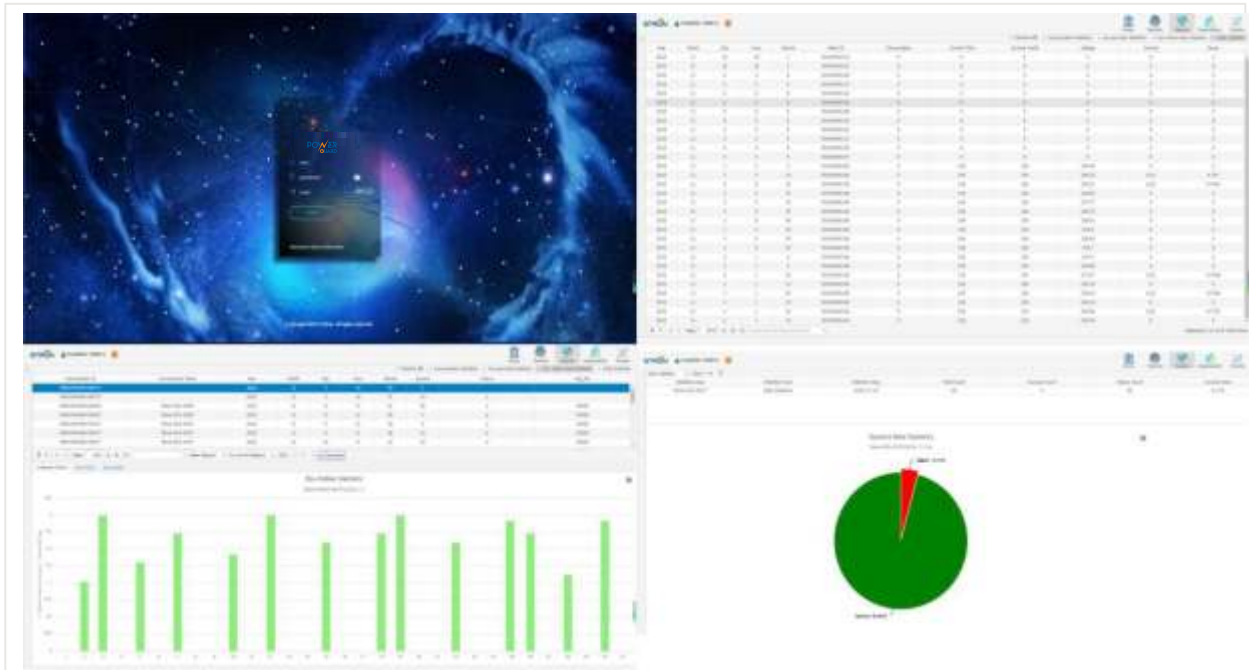@ info@powerguardmeters.com
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The advantages to recharge with mobile payment:

✱ Users can top up water by mobile money without leaving the house.
✱ Users could check information by their telephone.
✱ It helps utilities for Revenue water protection and consumer management.

3. By the AMI System

⇨ **Recharge remotely via DCU and LORA-RF module**

How to recharge by AMI System?

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