



WUHAN RADARKING ELECTRONICS CORP.



DDSY150-C

Single Phase IC Card Prepayment Electricity Meter

The DDSY150-C is used for a wide range of prepaid applications. It combines latest STS (Standard Transfer Specification) with 3DES security encryption technology. The meter is allowing a basic current of 5 Amp while retaining a maximum current of 80 Amp and extended AMR/AMI functional features. It is a compact design in a BS8565 standard housing and maintains the rugged RF immunity withstand of 30V/m and IP54 rating, allowing it to operate in harsh environments.

The meter works with a plug-in module for data collection and network communications. This module-design enables utility to select from PLC/RF/GPRS/3G and 4G LTE cellular data networks according to local conditions at low cost. Upgrade and maintenance will also become cost-effective by replacing the modules only instead of the entire meter.

Main Features

- 20 digit (Standard Transfer Specification) STS encryption
- Detection of significant reverse energy (SRE)
- IEC62056-21 compliant optical & RS485 port allowing for easy data interrogation
- Disconnects on overload and no credit
- Prepayment and credit mode hot swap
- Programmable load limit and low credit warning
- Detection and record tamper event such as opening cover, reverse connection, black-out
- Easy access to 12 months historical consumption data and last 5 token entered

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AMR/AMI Smart Metering Function (on request)

- * Easy connection to User Interface Unit (UIU) for split type applications
- * PLC/ RF / GPRS communication with a head-end AMR/AMI server
- * Time of Use (**TOU**) , multi-tariff, holiday setting.
- * Advanced load control and disconnection features

Electrical parameters:

Voltage

| | |
|--------------------|------------|
| Nominal voltage Un | 230V |
| Limited voltage | 70%~120%Un |

Frequency

| | |
|----------------------|---------|
| Nominal frequency fn | 50-60Hz |
| tolerance | 5% |

Current

| | |
|------------------------|-------------|
| Basic current(Ib) | 5A |
| Maximum current(Imax) | 80A |
| Starting current(Ist) | 20mA |
| Active energy constant | 1600imp/kWh |

Measurement Accuracy

| | |
|--------------------------------|----------|
| Active energy to IEC62053 - 21 | Class1.0 |
|--------------------------------|----------|

Power Consumption

| | |
|--------------------------------------|----------|
| Power consumption in Voltage circuit | <2W <8VA |
| Power consumption in current circuit | <1VA |

Temperature range

| | |
|-----------------|---------------|
| Operation meter | -25°C to+70°C |
| Storage | -40°C to+85°C |

Insulation strength

| | |
|--|-------------------------|
| AC Insulation strength | 4kV at 50Hz during 1min |
| Impulse voltage 1.2/50 μ s mains connections | 8kV |

Electro Magnetic Compatibility

Electrostatic discharges

| | |
|-------------------|------|
| Contact discharge | 8kV |
| Air discharge | 16kV |

Electromagnetic RF fields

| | |
|---------------------------|-------|
| 27MHz to 500MHz typical | 10V/m |
| 100kHz to 1GHz typical | 30V/m |
| Fast transient burst test | 4kV |

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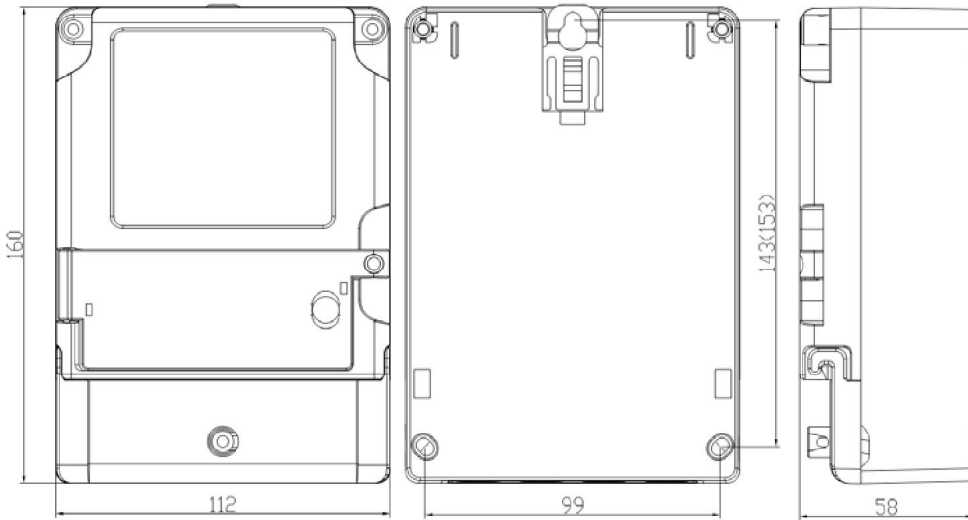


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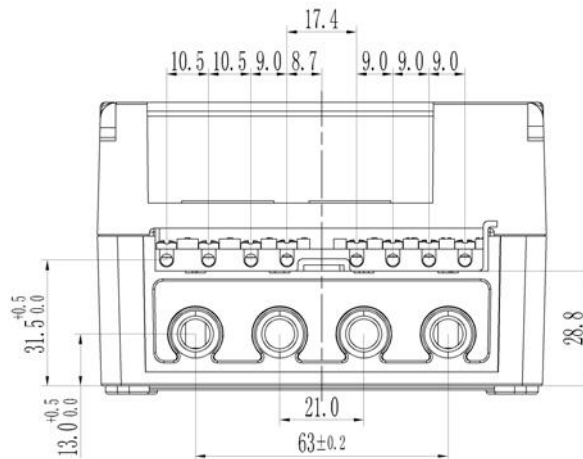
Mechanical requirements

| | |
|----------------------------------|---------------------|
| Meter shell Protection Rate | IP54 |
| Insulation System Classification | Protective Class II |
| Maximum cable size | 8 mm |

Dimensions



Terminal block



To find more benefit of our product and solutions, please contact us for further details.