

CA168-S

Single Phase Din-rail Split-type Prepaid Electricity Meter

The CA168-S Meter is a split-type compact DIN-Rail mounted Class 1 accuracy single phase electricity meter built in 35mm international standard housing made of poly-carbonate flame retardant materials. Galvanic isolation wire is basic connection between the meter and keypad. Double circuit measurement and relay are also available on request for reinforced tamper prevention.



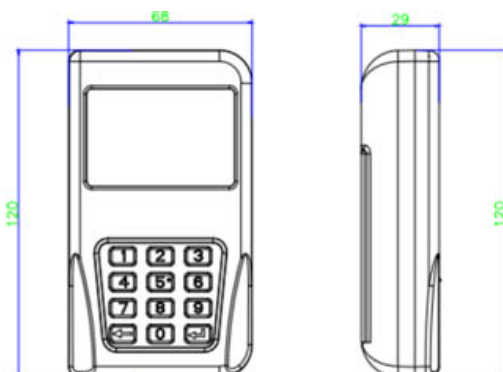
Features

- 20 digit (Standard Transfer Specification) STS encryption
- Slim-line and space-economy design,
- 15 minutes' data resolution remote data retrieval via GSM (on request)
- Up to 80A current with Class 1 accuracy
- Disconnects on overload and no credit
- Programmable power limit and low credit warning



Split Configuration for Increased Revenue Protection

The meter consists of two parts, the MCU (Metering & Control Unit) and UIU (User Interface Unit). The MCU and UIU is linked via galvanically-isolated 2-wire communication cable. Power line carrier (PLC) and Radio Frequency (RF) communication module is also available on request. The UIU is installed within consumer's home, while MCU is installed in a meter cabinet away from consumers.



User Benefit

- Meter is durable and operable for harsh and severe environment
- Easy and quick to install
- Disconnect on preset credit level and tamper.
- Slim-line design to reduce operational cost

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(I _{max})	80A
Starting current(I _{st})	20mA
Active energy constant	1000imp/kWh
Measurement Accuracy	
Active energy to IEC62053 - 21	Class1.0
Burden	
Voltage circuit	<2W <8VA
Current circuit	<1VA
Temperature range	
Operation meter	-25°C to+70°C
Storage	-40°C to+85°C

Insulation

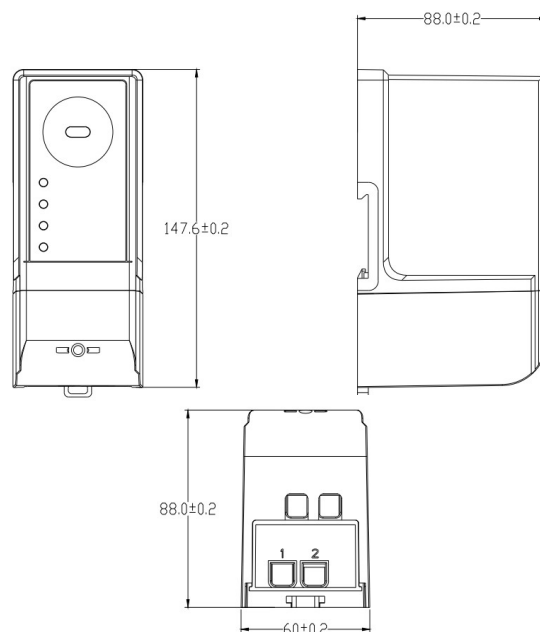
Insulation level	4kV rms 1min
Voltage impulse withstand	8kV 1.2/50 μs
Insulation System Classification	Protective Class II

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

Mechanical requirements

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



Our company is original meter manufacturer and solution provider. We not only produce our own products but also ODM / OEM with other meter manufacturers. For further information, start here:

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