

CA368-WS23

Three Phase Keypad Electronic Smart Meter

The CA368 WS23 is a three-phase multi-function smart meter with embedded communication module. The meter is used to accurately measure electrical energy for commercial, industrial, and residential customer.

The meter supports PLC/RF/GPRS/3G/4G, and the communication protocol complies with DLMS. The CA368 WS23 can be used in STS compliant prepayment mode or in post payment, with or without communication module.

Main Features

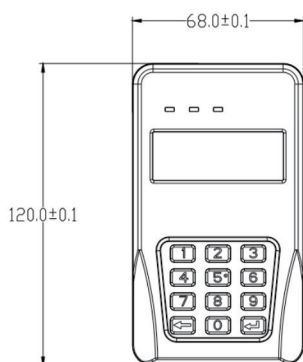
- Multi-Tariff
- STS payment
- DLMS / COSEM
- Built-in load control
- Infrared port/ RS485
- Tamper detection and record
- LCD display, read without power
- Active/reactive energy measurement
- Disconnects on overload and no credit
- Prepayment/post-payment mode switching
- Plug & Play module PLC /RF /GPRS /3G /4G
- Display Scroll button or STS keypad (alternative)
- Programmable power limit and low credit warning
- Dual power source swap between grid supply and solar
- Maximum demand measurement and load profiling (on request)



Split Configuration for Increased Revenue Protection

The meter consists of two parts, the MCU (Metering & Control Unit) and CIU (Customer Interface Unit). The MCU and CIU is linked via galvanically-isolated 2-wire communication cable or RF communication is also available on request.

The CIU is installed within consumer's home for prepaid token input and info inquiry, while MCU is installed in a meter cabinet away from consumers.



ELECTRICAL PARAMETERS

VOLTAGE/FREQUENCY/CURRENT

Nominal voltage Un	3x230/240V
Limited voltage	60%~120%Un
Frequency	50/60Hz+5%
Basic current(Ib)	10A
Maximum current(Imax)	100A
Starting current(Ist)	30mA
Active energy constant	1000imp/kWh

ACCURACY

Active energy IEC62053 - 21	Class1.0
Reactive energy IEC62053 - 23	Class2.0

BURDEN

Voltage circuit	<2W <8VA
Current circuit	<1VA

TEMPERATURE RANGE

Operation meter	-25°C~+70°C
Storage	-40°C~+85°C

INSULATION

Insulation level	4kV rms 1min
Voltage impulse withstand	8kV 1.2/50 μs

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	10 mm

