

Low Power Consumption

CHE120

Single Phase Electronic Meter

SWARM series

CHNT

Empower the World

Instrument & Meter



- ⊙ Ultra Low Power Consumption
- ⊙ Large LCD Display
- ⊙ Bi-direction Measurement



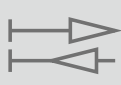
HIGH ACCURACY



LOW CONSUMPTION



LARGE LCD
DISPLAY



BI-DIRECTION
MEASUREMENT

CHE120

Single Phase Electronic Energy Meter

SPECIFICATIONS

Measurement

- Compliance with IEC standard
- Connection type: 1P2W
- Accuracy: Class 1.0 for active

Voltage

- Nominal voltage (Un): 110V, 120V, 220V, 230V, 240V
- Operating range: 0.7Un ~ 1.2Un
- Power consumption: ≤0.3W, 0.5VA

Current

- 5(60)A/5(80)A/5(100)A

Frequency

- 50Hz or 60Hz

Real-time Clock

- Accuracy within 0.5 seconds per day at 23°C

LCD Display

- 7 characters of 7 segment display
- Digital size: 7mm × 16mm
- Display available without main power
- Reverse energy

Battery

- Built-in Battery
- Voltage: 3.6V
- Backup time: 15 years with power

Measured Values

- Import/Export/Absolute/Algebraic kWh
- Instantaneous kW, kVA, Irms, Vrms

Output

- LED pulse for per kWh

Time of Use (Optional)

- Up to 4 rates
- Up to 12 seasons each year
- Up to 12 week table
- Up to 8 day table and 10 time interval in a day

Event Logs

- Tampering detection, power quality and general events
- Configurable event alarming system
- Meter error state indication on LCD

Communications (Optional)

- Optical port
- Built-in LoRa/RF/Bluetooth module (optional)

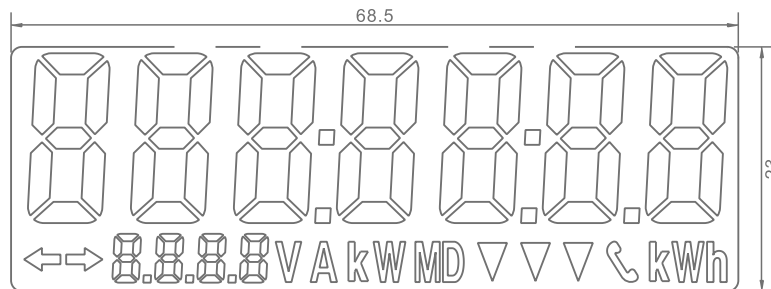
Environmental

- Operating range limit: -40°C to +75°C
- Storage range limit: -40°C to +85°C
- Relative humidity: ≤ 95%RH
- Ingress protection: IP54

Dimensions and weight

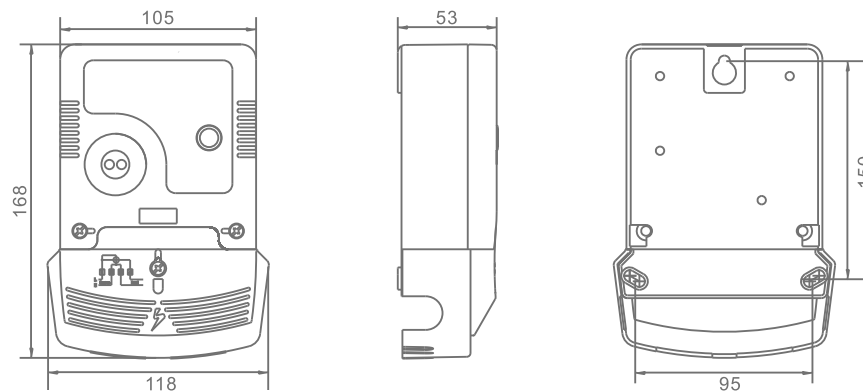
- Dimensions: 168mm × 118mm × 53mm
- Weight: 0.7 kg (Approx.)

LCD INDICATION



Units:mm

METER DIMENSIONS



Units:mm



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