



# AES1220

Smart Electricity Meter Single Phase Two Elements

Enabling People – The aim of Smart Metering



**SMETS2 GBCS compliant**

**FW OTA upgrades available**

**Secure & High speed & Modular communications**

**Memory headroom for future functionality**

**Installer friendly, Data privacy, 32-bit processor**

**Design for manufacturability & reliability**



## TECHNICAL SPECIFICATIONS

### Measurement

- 2 elements
- Active / Reactive / Apparent energy
- Active / Reactive/ Apparent Power
- Import / Export
- Instantaneous current/voltage
- Active: Class B, Reactive: Class 2

### Rating

- Voltage operating range: 172.5V – 264.5V
- Current: 10A(100A)
- Ingress Protection: IP51
- Temperature operating range: -25°C to 55°C

### Tariffs

- Primary element: Supports TOU Block mode 4\*8 Block register matrix, 4\*8 Block price matrix
- Secondary element: Support up to 48 tariffs
- Two elements operate independently

### Security

- AES-128/ECC data encryption
- CPA SC followed
- SMKI implemented
- Tamper detection

### Communications

- GBCS baseline specification
- DLMS/COSEM compliant
- HAN: ZigBee SEP1.2 (<10mW) Field placeable HAN module supportsre different technologies for local connectivity
- Optional optical port : IEC62056-21

### Consumer Interface

- 160\*50 Dot Matrix LCD display
- Backlight configurable
- Beeper indication
- User-friendly operation

## Profiling

- Half-hourly: consumption data for last 13 months, export data (kWh) and reactive energy import/export (kvarh) of last 3 months
- Daily: consumption data (kWh) for last 2 years
- Current tariff information

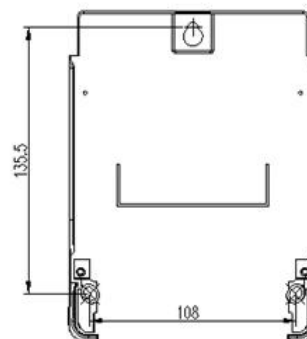
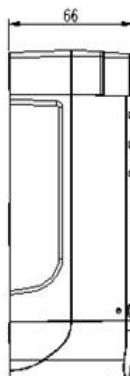
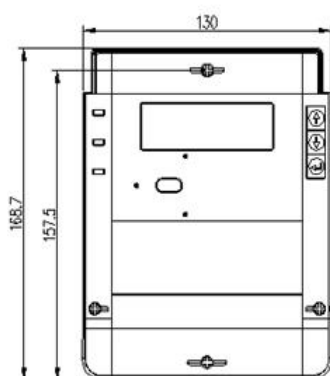
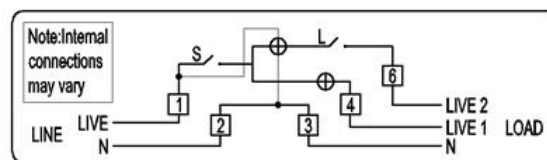
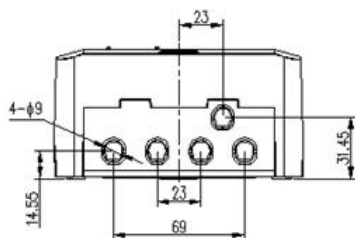
## Physical Dimension

- H \* W \* D: 168.7mm\*130mm\*66mm
- Net Weight: 1.0kg

## Relay

- Two build-in 100A contactors
- Remote/Local/Time-based action
- ARM / Boost support
- Smart and friendly load control

## Outline and installation dimensions & Wiring diagram



**Holley Technology Ltd**  
**No.181 Wuchang Avenue**  
**Yuhang District Hangzhou China**  
**Tel: +86-571-89300881**  
**Email: [overseas@holley.cn](mailto:overseas@holley.cn)**  
**Website: [www.holleytech.cn](http://www.holleytech.cn)**

**Holley Technology UK Limited**  
**200 Brook Drive, Green Park, Reading, United Kingdom**  
**RG2 6UB**  
**Tel: +44(0)1189497200**  
**Email: [info@holleytech.uk](mailto:info@holleytech.uk)**  
**Website: [www.holleytech.uk](http://www.holleytech.uk)**