

# Smart Power Meter System

## Web User Manual for i-Village Residents

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I. Log in Student Web Panel or Student Mobile App

Via URL: <https://w5.ab.ust.hk/njgg/app>, or scan the QR code below:

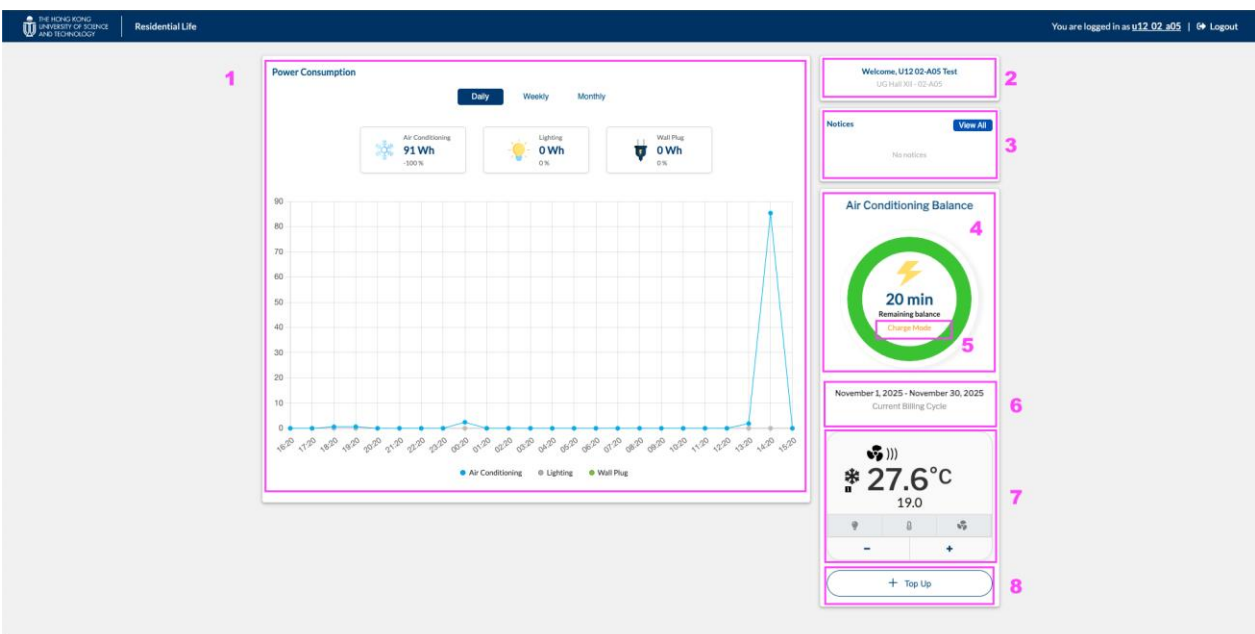


Via HKUST Student Mobile App (Select “Residential Life” under Easy Living Menu)



## II. Home Page

1. Power Consumption Chart – Students can view their historical usage and compare by Daily, Weekly, Monthly
2. Students name/ID and the assigned hall and room
3. Notices – Admin will be sending out notices and this is where it can be seen
4. Air Conditioning Balance (in minutes/kWh) – After making a top up, balance will be available here
5. Charge Mode / Free Mode
  - Free Mode – Student can use / operate the FCU Controller at no cost
  - Charge Mode – Student is required to make a top up before they can operate the AirCon in FCU Controller.
6. Current Billing Cycle – This shows the name and date range of the billing cycle.
7. FCU Controller – Student can control the FCU Panel of the room.
8. Top up – student can add a balance by making a top up and by any of these available payment methods:
  - Visa / Master
  - UnionPay
  - Alipay
  - WeChat Pay
  - FPS



### III. Making a Top-Up or adding balance to assigned room and for other rooms

1. Tap the "Top-Up" button on the homepage.
2. If topping up for the current billing cycle, the option is set by default. To top-up for a future billing cycle, tap the dropdown menu and select the desired cycle.
3. The assigned room is set by default. To top-up for a different room, tap the dropdown menu and select the desired room.
4. A default selection for top-up minutes is provided. To choose a different amount, enter your preferred minutes (in multiples of 10 only). The calculation and total amount will be displayed.
5. Select your payment method, then tap "Proceed to Payment."
6. After a successful payment, you will be directed to the Success Page.
7. Tap the "Back to Home" button to return to the homepage and check your AC balance.

**NOTE:** Any remaining balance in the current billing cycle will be forfeited in the next billing if left unused / not consumed

#### IV. Viewing the Billing Cycles

1. Tap on the "Top Up" button on the Home Page
2. Billing cycle page shows the Current and Future Billing Cycles (Future Billing Cycles will show below Current Billing Cycle if there's any)
3. Current / Future Billing cycle section shows the following:
  - (a) Air Conditioning balance
  - (b) Total kWh / Minute(s) Usage
  - (c) Total Amount
  - (d) Adjustments (made by the admin)

The screenshot displays the 'Residential Life' web application interface. At the top, a dark blue header contains the university logo, the text 'Residential Life', and a user login status 'You are logged in as u12\_02\_a05 | Logout'. Below the header, a navigation bar includes a 'Back to Home' link and two tabs: 'Billing Cycle' (highlighted with a pink box and labeled '2') and 'Top Up History'. The 'Billing Cycle' tab is active, showing a 'Current Billing Cycle' section for the period 'November 01, 2025 - November 30, 2025'. This section contains a table with the following data:

Current Billing Cycle	
Air Conditioning Balance	20 min
Total Minute(s) Usage	0 min
Total Amount	\$1.36
Adjustments	\$0.00

The table is enclosed in a pink box labeled '3'. To the right of the 'Billing Cycle' section is the 'Top Up Detail Form'. This form includes a 'Current Billing Cycle' dropdown menu set to 'U12-02-A05'. Below this is a 'Select Top-up' section with buttons for 20, 40, 60, 80, 100, and 120 minutes, plus a 'Custom minute(s)' input field. A 'Calculation' section shows '0 minute(s)' multiplied by a dollar sign. The 'Select Payment Method' section features logos for VISA, Mastercard, and others. At the bottom, the 'Total Amount' is displayed as '\$0', and a 'Proceed to Payment' button is visible.

## V. Viewing the Top-Up History

1. Tap on the “Top Up” button on the Home Page
2. Tap on the ‘Top Up History’
3. Every transaction, either Successful or Failed, will be displayed.

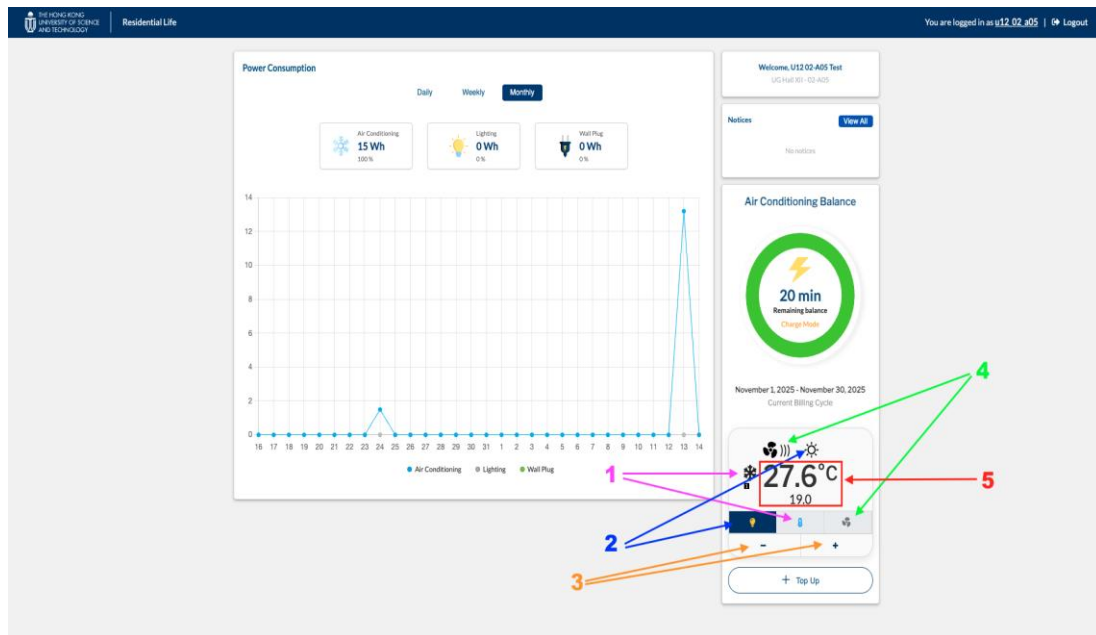
Payment details are the following:

- (a) Payment Status - Successful / Failed
- (b) Billing Cycle - Current / Future Billing Cycle
- (c) Room number - Assigned room or for other room
- (d) Paid amount
- (e) Additional minutes or kWh

The screenshot displays the 'Residential Life' interface. At the top, a navigation bar includes the university logo, 'Residential Life', and a user login status. Below this, a 'Back to Home' link is visible. The main content area is divided into two sections. On the left, the 'Top Up History' tab is active, showing a list of transactions. A specific transaction is highlighted with a pink box, showing a successful payment of \$1.36 for 20 minutes. On the right, the 'Top Up Detail Form' is displayed, allowing users to select a top-up amount, calculate the cost, and choose a payment method. The 'Total Amount' is shown as \$0, and a 'Proceed to Payment' button is located at the bottom right of the form.

## VI. FCU Panel Functions

1. It will toggle between Modes (OFF | Cooling | Fan), when pressed:
  - a. If turned OFF it will show OFF and then show the Temperature after 5 seconds
  - b. If Cooling mode it will show the Snow Icon Indicator
  - c. If Fan mode it will only show the Fan Icon Indicator
2. When pressed, it will turn-on / turn-off the room Lighting.
3. If the mode is set to Cooling, you can adjust the temperature from these buttons.
4. If the mode is set to Cooling or Fan, you can adjust the fan speed from these button
5. It will display the current temperature and below is the temperature set point.



END