



The XÚÓË¹· offers a variety of display modes, including single or multi-channel setting values, measurement values, and waveform displays. The Monitor function of the XÚÓË¹· allows users to set monitoring conditions according to requirements, sound alarms or stop output during the measurement process, and stop measurement and protect the customer's DUT. The XÚÓË¹· provides output recorder function, which records the voltage/current of the output process to the internal memory, and the result can be stored as a (\*.REC) or (\*.CSV) file, which can then be transferred to the USB flash drive. The stored \*.CSV can be exported to the Excel to conduct the future analysis.

The **XUUEH1A** provides the sequential output function on Channel 1 and Channel 2. This function not only allows users to edit the power output waveform, but also allows users to set the sequential constant voltage (CV) or constant current (CC) load waveform, i.e. a serial power output or a simulation test of a dynamic load. In order to simplify the setting of waveform editing, the **ÖUUEH1A** has 8 built-in Templet waveforms in the sequence output function for users to directly apply for output, including Sine, Pulse, Ramp, Stair Up, Stair Dn, Stair UpDn, Exp Rise, Exp Fall waveforms.

In addition, the Trigger In/Trigger Out functions synchronize external devices. The XUUEHCH channel 3 adds a 3A USB (Type A) output terminal for USB charging test. The intelligent temperature-controlled fan can adjust the speed according to the temperature of the power transistor so as to reduce unnecessary noise. The output value setting and the Sequence/Delay/Recorder functions provide 10 sets of internal memory for use, and can be loaded/stored using a USB flash drive. In addition to the standard RS-232 and USB remote interfaces, the XUUEHCH also has an optional LAN or LAN+ GPIB interface to facilitate different requirements. The commands of the XUUEHCH series conform to SCPI requirements and are compatible with the commands of the VPD-X303S series.

- 4.3" TFT LCD Display
- Supports Setting Value, Measurement Value and
- Output Waveform Display
- Load Function (CC, CV, CR Mode)
- Setting Resolution: 1mV/0.1mA ; Read Back
- Resolution: 0.1mV/0.1mA
- Low Ripple Noise:  $\leq 350\mu\text{Vrms}/\leq 2\text{mArms}$
- Transient Response Time:  $\leq 50\mu\text{s}$
- Tracking Series and Parallel Function without
- Additional External Wiring
- Utilizing Hardware to Realize Over Voltage
- Protection/Over Current Protection/Over
- Temperature Protection
- Delay Function/Output Monitoring Function/
- Output Recorder Function
- Intelligent Temperature Control Fan Effectively
- Reduces Noise
- Sequential Output Function and Built-in
- 8 Template Waveforms
- The Output Recorder Function Records The
- Output Voltage & Current Parameters with A
- Minimum Recording Interval of 1 Second
- Provides 10 Sets of Memory for Each Sequence/
- Delay/Recorder/Panel Setting Condition
- VPP-3323 Supports A USB(Type A)/Output Term
- Standard: RS-232, USB, Ext I/O ; Optional
- (Manufacturer Installed Only) : LAN, GPIB+LAN
- Compatible with Commands of GPD-X303S Serie



## Front Panel



## Rear Panel

- School and Research Institute
- Energy Storage Device Industry
- Semiconductor Industry
- Consumer Electronics Industry

Simply Reliable



| SPECIFICATIONS                                  |  |  |       |  |       |                |       |  |                |               |                |
|---|--|--|-------|--|-------|----------------|-------|--|----------------|---------------|----------------|
|   |  | VPP-4323   |       |  |       | VPP-3323       |       |  | VPP-2323       |               | VPP-1326       |
| OUTPUT MODE                                     | Number of Channel<br>Voltage<br>Current<br>Tracking Series Voltage<br>Tracking Parallel Current  | CH1  | CH2   | CH3                                      | CH4   | CH1            | CH2   | CH3                                      | CH1            | CH2           | CH1            |
|   |  | 0~32V  | 0~32V | 0~5V                                     | 0~15V | 0~32V          | 0~32V | 1.8/2.5/3.3/5.0V                         | 0~32V          | 0~32V         | 0~32V          |
|   |  | 0~3A   | 0~3A  | 0~1A                                     | 0~1A  | 0~3A           | 0~3A  | 5A                                       | 0~3A           | 0~3A          | 0~6A           |
|   |  | 0~64V  |       | —  |       | 0~64V          |       | —  |                | 0~64V         |                |
|   |  | 0~6A   |       |  |       | 0~6A           |       | 0~6A                                     |                | —             |                |
| CONSTANT VOLTAGE OPERATION                      | Line Regulation<br>Load Regulation<br>Ripple & Noise(5Hz~1MHz)<br>Recovery Time  | ≤0.01%+3mV   |       |  |       |                |       |  |                |               |                |
|   |  | ≤0.01%+3mV(rating current ≤3A); ≤0.02%+5mV(rating current >3A)   |       |  |       |                |       |  |                |               |                |
|   |  | ≤350μVrms  |       | ≤1mVrms                                  |       | ≤350μVrms      |       | ≤2mVrms                                  |                | ≤350μVrms     |                |
|   |  | ≤50μs  |       | ≤50μs                                    |       | ≤50μs          |       | ≤100μs                                   |                | ≤50μs         |                |
| CONSTANT CURRENT OPERATION                      | Line Regulation<br>Load Regulation<br>Ripple & Noise   | ≤0.2%+3mA  |       |  |       |                |       |  |                |               |                |
|   |  | ≤0.2%+3mA  |       |  |       |                |       |  |                |               |                |
|   |  | ≤2mArms  |       |  |       | ≤2mArms        |       |  | ≤2mArms        |               | ≤4mArms        |
| PROGRAMMING RESOLUTION                          | Voltage  | 1mV  |       |  |       | 1mV            |       | —  | 1mV            |               | 1mV            |
|   | Current  | 0.1mA  |       |  |       | 0.1mA          |       | —  | 0.1mA          |               | 0.2mA          |
| TRACKING OPERATION (CH1,CH2)                    | Tracking Error<br>Parallel Regulation<br><br>Series Regulation<br>Ripple & Noise   | ≤0.1%+10mV of Master(0~32V, No Load, with Load add Load regulation≤100mV)  |       |  |       |                |       |  |                |               |                |
|   |  | Line : ≤0.01%+3mV<br>Load : ≤0.01%+3mV(rating current≤3A); ≤0.02%+5mV(rating current>3A)<br>Line : ≤0.01%+5mV ; Load : ≤100mV<br>≤1mVrms, 5Hz ~ 1MHz |       |  |       |                |       |  |                |               |                |
| CH3 OPERATION FOR (GPP-3323)                    | Output Voltage<br>Output Current<br>Line Regulation<br>Load Regulation<br>Ripple & Noise<br>Transient Recovery Time<br>USB Port Output   | 1.8V/2.5V/3.3V/5.0V, ±5%   |       |  |       |                |       |  |                |               |                |
|   |  | 5A<br>≤3mV<br>≤5mV<br>2mVrms(5Hz~1MHz)<br>100μs<br>1.8V/2.5V/3.3V/5.0V, ±0.35V, 3A   |       |  |       |                |       |  |                |               |                |
| METER   | Voltage Resolution<br>Current Resolution<br>Setting Accuracy<br><br>Readback Accuracy  | 0.1mV  |       |  |       | 0.1mV          |       | —  | 0.1mV          |               | 0.1mV          |
|   |  | 0.1mA  |       |  |       | 0.1mA          |       |  | 0.1mA          |               | 0.2mA          |
|   |  | ≤±(0.03%+10mV)   |       |  |       | ≤±(0.03%+10mV) |       |  | ≤±(0.03%+10mV) |               | ≤±(0.03%+10mV) |
|   |  | ≤±(0.30%+10mA)   |       |  |       | ≤±(0.30%+10mA) |       |  | ≤±(0.30%+10mA) |               | ≤±(0.30%+10mA) |
| DC LOAD CHARACTERISTIC                          | Channel<br>Display Power<br>Display Voltage<br>Display Current<br>CV Mode Setting Range<br>Resolution<br>Set Accuracy<br>Read Accuracy<br>CC Mode Setting Range<br>Resolution<br>Set Accuracy<br>Read Accuracy<br>CR Mode Setting Range<br>Resolution<br>Set Accuracy<br>Read Accuracy | 2  |       |  |       | 2              |       |  |                | 2             |                |
|   |  | 0~50.00W   |       |  |       | 0~50.00W       |       |  |                | 0~50.00W      |                |
|   |  | 1~33.00V   |       |  |       | 1~33.00V       |       |  |                | 1~33.00V      |                |
|   |  | 0~3.200A   |       |  |       | 0~3.200A       |       |  |                | 0~3.200A      |                |
|   |  | 1.500V~33.00V  |       |  |       | 1.500V~33.00V  |       |  |                | 1.500V~33.00V |                |
|   |  | 10mV   |       |  |       | 10mV           |       |  |                | 10mV          |                |
|   |  | ≤0.1%+30mV   |       |  |       | ≤0.1%+30mV     |       |  |                | ≤0.1%+30mV    |                |
|   |  | ≤0.1%+30mV   |       |  |       | ≤0.1%+30mV     |       |  |                | ≤0.1%+30mV    |                |
|   |  | 0~3.200A   |       | —  |       | 0~3.200A       |       |  |                | 0~3.200A      |                |
|   |  | 1mA  |       |  |       | 1mA            |       |  |                | 1mA           |                |
|   |  | ≤0.3%+10mA   |       |  |       | ≤0.3%+10mA     |       |  |                | ≤0.3%+10mA    |                |
|   |  | ≤0.3%+10mA   |       |  |       | ≤0.3%+10mA     |       |  |                | ≤0.3%+10mA    |                |
|   |  | 1~1kΩ  |       |  |       | 1~1kΩ          |       |  |                | 1~1kΩ         |                |
|   |  | 1 Ω  |       |  |       | 1 Ω            |       |  |                | 1 Ω           |                |
| ≤0.3%+1Ω(Voltage ≥0.1V,and current≥0.1A)        |  |  |       | ≤0.3%+1Ω(Voltage ≥0.1V,and current≥0.1A) |       |                |       | ≤0.3%+1Ω(Voltage ≥0.1V,and current≥0.1A) |                |               |                |
| ≤0.3%+1Ω(Voltage ≥0.1V,and current≥0.1A)        |  |  |       |  |       |                |       | ≤0.3%+1Ω(Voltage ≥0.1V,and current≥0.1A) |                |               |                |
| ≤0.3%+1Ω(Voltage ≥0.1V,and current≥0.1A)        |  |  |       |  |       |                |       |  |                |               |                |
| INSULATION                                      | Chassis and Terminal<br>Chassis and AC Cord  | 20MΩ or above (DC 500V)<br>30MΩ or above (DC 500V)   |       |  |       |                |       |  |                |               |                |
| ENVIRONMENT CONDITION                           | Operation Temp<br>Storage Temp<br>Operating Humidity<br>Storage Humidity   | 0~40℃<br>-10~70℃<br>≤80% RH<br>≤70% RH   |       |  |       |                |       |  |                |               |                |
| EXTERNAL CONTROL                                | Yes  |  |       |  |       |                |       |  |                |               |                |
| INTERFACE                                       | Std: RS-232/USB(CDC), Opt(Manufacturer installed only): LAN/ GPIB+LAN  |  |       |  |       |                |       |  |                |               |                |
| POWER SOURCE                                    | AC100V/120V/220V/230V±10%, 50/60Hz   |  |       |  |       |                |       |  |                |               |                |
| DIMENSION & WEIGHT                              | 213(W) x 145 (H) x 312(D) mm ; Approx. 7.5kg   |  |       |  |       |                |       |  |                |               |                |
| Specifications subject to change without notice |  |  |       |  |       |                |       |  |                |               |                |

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