Datasheet
Multiple Output Programmable Linear D.C. Power Supply

Stock No.:   Model:
123-3558   IPS-2303S   123-3559   IPS-3303D
123-3560   IPS-3303S   123-3561   IPS-4303S

FEATURES

- 2,3,and 4 Independent Isolated Output
- 4 LED Display Sets : 3 Digits After Decimal Point (IPS-2303S/3303S/4303S)
- Minimum Resolution : IPS-2303S/3303S/4303S (1mV/1mA)
  IPS-3303S (100mV/10mA)
- Digital Panel Control (Rotary Encoder Switch, Rubber Key With Indicator)
- User-Friendly Operation, Coarse/Fine Volume Control
- 4 Sets Save/Recall
- Key-Lock
- Output ON/OFF
- Tracking Series and Parallel Mode
- Smart Cooling Fan Achieving Low Noise
- Compact Design
- PC Software & USB Driver
- USB Standard Interface
The IPS-Series contain the superior technology and high quality which RS PRO had established through its long history of power supply design and manufacturing. The IPS-Series offers digital panel control, large display, bright LED indicators, high output resolution, 4 sets of setup memory, USB remote control and smart cooling fan control. Additionally, the IPS-Series provide easy operation, a wide selection of panel settings and the most important for a reasonable price. All these features make the IPS-Series the most promising new comer in the power supply market.

**High Resolution**
With 1mV/1mA (for IPS-2303S/3303S/4303S) high resolution and coarse/fine volume control the IPS-Series guarantees clean and stable output. Using the IPS-Series you can easily simulate the device under test’s accurate behavior against small changes in voltage or current, which is impossible when using a low resolution power supply.

**Tracking Series and Parallel Function**
Tracking series and parallel function allows you to use the IPS-Series in wide range of applications. The tracking series mode guarantees higher output voltage, while the tracking parallel mode guarantees higher output current.

**Convenience Functions**
The knobs are digitally controlled, allowing fine or coarse volume setting. The key lock feature locks panel operations, preventing accidental change of the settings which might lead damaging for the equipments.

**4 Sets of Save / Recall**
The IPS-Series can save and recall panel settings, these feature which can not offered by general power supplies. You can quickly select a panel setting from four memory sets without manual configuration.

**USB Remote Control**
The USB device port in the IPS-Series allows you to remotely control the power supply according to your application needs.

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**APPLICATIONS**

- Laboratories and Educational Facilities
- Product Testing and Quality Assurance
- Service Operation and Post-Sales Support
- Product Development and Debugging

**FUNCTION FEATURES**

1. Bright LED display shows settings or actual level of output
2. The independent CH3 output offers three commonly used voltage settings (IPS-3303S/3303D only)
3. C.V./C.C. modes are clearly indicated in different colors
4. Smart cooling fan control offers a well-balanced cooling mechanism, ensuring quiet operation
5. The tracking series and parallel mode can be selected with a single touch
6. Indicators embedded in the keys provide an instant view of the power supply status; the Key Lock feature prevents improper operation
### Specifications

#### Output

<table>
<thead>
<tr>
<th>Channel</th>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH1, CH2, CH3</td>
<td>0-30V</td>
<td>0-3A</td>
</tr>
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<td>0-30V</td>
<td>0-3A</td>
</tr>
<tr>
<td>CH1, CH2, CH3</td>
<td>2.5/3.3/5.0V</td>
<td>0-3A</td>
</tr>
<tr>
<td>CH1, CH2, CH3</td>
<td>0-V</td>
<td>0-3A</td>
</tr>
</tbody>
</table>

#### Constant Voltage Operation

- **Regulation**: Line regulation ≤ 0.01% +1mV
- **Load regulation**: ≤ 0.01% +3mV (rating current ≥ 3A)
- **Ripple & Noise**: ≤ 1mVrms (5Hz~1MHz)
- **Recovery Time**: ≤ 100 μs (50% Load change, Minimum load 0.5A)
- **Temp. Coefficient**: ≤ 300ppm / °C
- **Output Range**: 0 to rating voltage continuously adjustable

#### Constant Current Operation

- **Regulation**: Line regulation ≤ 0.2% +3mA
- **Ripple Current**: ≤ 3mA
- **Output Range**: 0 to rating current continuously adjustable

#### Tracking Operation

- **Regulation of PAR.**: Line regulation ≤ 0.01% +3mV
- **Load regulation**: ≤ 0.01% +5mV (rating current ≥ 3A)
- **Ripple & Noise**: ≤ 1mVrms (5Hz~1MHz)
- **Tracking error**: ≤ 0.5% 10mV (10 ~ 30V no load)
- **with load added**: ≤ 0.5% 30mV (0 ~ 9.99V no load)

#### Meter

- **Display**: Voltage: 4 3/4 digits 0.4” LED Display
- **Resolution**: Voltage: 1mV
- **Program**: Voltage: (0.03% of RDG +10 digits)
- **Accuracy (25 °C)**: Current: (0.3% of RDG +10 digits)
- **Readback**: Voltage: (0.03% of RDG +10 digits)
- **Accuracy (25 °C)**: Current: (0.3% of RDG +10 digits)

#### CH3 Specifications

- **Output Voltage**: 0-30V
- **Output Current**: 0-3A
- **Regulation (25 °C)**: Line regulation ≤ 0.01% +1mV
- **Load regulation**: ≤ 1mVrms (5Hz~1MHz)

#### Key Lock

- **Yes**

#### Memory Save/Recall

- **4 sets**

#### Power Source

- **AC100V/120V/220V/230V 10%, 50/60Hz**

#### Dimension & Weight

- **210(W) x 130 (H) x 265(D) mm**
- **Approx. 7kg**

### Ordering Information

- **IPS-2303S**: IPS-2303S 2 Channels, 180W Programmable Linear DC Power Supply
- **IPS-3303S**: IPS-3303S 3 Channels, 195W Programmable Linear DC Power Supply
- **IPS-4303S**: IPS-4303S 4 Channels, 195W Programmable Linear DC Power Supply
- **IPS-3303D**: IPS-3303D 3 Channels, 195W Programmable Linear DC Power Supply

### Accessories

- **IPS-2303S Test Lead GTL-104A2, European Test Lead GTL-204A2, GTL-201A2**
- **IPS-3303S Test Lead GTL-104A2, GTL-105A, European Test Lead GTL-204A2, GTL-201A2**
- **IPS-4303S Test Lead GTL-104A2, GTL-105A, European Test Lead GTL-204A2, GTL-201A2**
- **IPS-3303D Test Lead GTL-104A2, GTL-105A, European Test Lead GTL-204A2, GTL-201A2**

Specifications subject to change without notice.

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