

# PSD3000 Series DC Power Supplies



## Main Features

- Constant Voltage & Constant Current operation
- Digital display for voltage & current
- Adjustable current limiter
- Protection Against over load & short circuit
- Compact and light weight

## Technical Specifications

| Model                        | PSD3203            | PSD3205    | PSD3303    | PSD3304     | PSD3205X            | PSD3205X-2 | PSD3210            | PSD3210-2   |
|------------------------------|--------------------|------------|------------|-------------|---------------------|------------|--------------------|-------------|
| No. of Channels              | 2                  | 2          | 3          | 3           | 1                   | 2          | 1                  | 2           |
| DC Output                    | A                  | 0 ~ 30V/3A | 0 ~ 30V/3A | 0 ~ 30V/2A  | 0 ~ 32V/5A          | 0 ~ 32V/5A | 0 ~ 32V/10A        | 0 ~ 32V/10A |
|                              | B                  | 0 ~ 30V/3A | 0 ~ 30V/3A | 0 ~ ±15V/1A | -                   | 0 ~ 32V/5A | -                  | 0 ~ 32V/10A |
|                              | C                  | -          | -          | 5V/3A       | 5V/5A               | -          | -                  | -           |
| Tracking Feature             | -                  | Yes        | -          | CH-B        | -                   | -          | -                  | -           |
| Total Output Power           | 180W               | 180W       | 195W       | 115W        | 160W                | 320W       | 320W               | 640W        |
| Settling Resolution          | V : 10mV, I : 5mA  |            |            |             |                     |            |                    |             |
| <b>Constant Voltage Mode</b> |                    |            |            |             |                     |            |                    |             |
| Load Regulation              | ≤ ± (0.05% + 10mV) |            |            |             | ≤ ± (0.01% + 2mV)   |            |                    |             |
| Line Regulation              | ≤ ± (0.05% + 10mV) |            |            |             | ≤ ± (0.01% + 2mV)   |            |                    |             |
| Ripple & Noise               | ≤ 1mVrms           |            |            |             | ≤ 0.5mVrms          |            |                    |             |
| <b>Constant Current Mode</b> |                    |            |            |             |                     |            |                    |             |
| Load Regulation              | ≤ ± 0.2%           |            |            |             | ≤ ± (0.05% + 250µA) |            | ≤ ± (0.1% + 250µA) |             |
| Line Regulation              | ≤ ± 0.2%           |            |            |             | ≤ ± (0.05% + 250µA) |            | ≤ ± (0.1% + 250µA) |             |
| Ripple & Noise               | ≤ ± 0.04%          |            |            |             | ≤ 3mA               |            |                    |             |
| Indication                   | CC Mode LED & Beep |            |            |             |                     |            |                    |             |

| Model                      | PSD3203   | PSD3205                                    | PSD3303  | PSD3304  | PSD3205X             | PSD3205X-2                                 | PSD3210              | PSD3210-2                                  |                   |
|----------------------------|---|--|--|--|----------------------|--|----------------------|--|-------------------|
| Display Type               | Seven segment LED display for voltage and current   |  |  |  |                      |  |                      |  |                   |
| Display Resolution         | Voltage   | 0.1V                                       | 0.1V   | 0.1V   | 0.1V                 | 0.1V                                       | 0.1V                 | 0.1V                                       | 0.1V              |
|                            | Current   | 0.01A                                      | 0.01A  | 0.01A  | 0.01A                | 0.01A                                      | 0.01A                | 0.01A                                      | 0.01A             |
|                            | Individual for V & I Switchable between channels  | Individual for V & I and for both channels | Individual for V & I Switchable between channels | Individual for V & I Switchable between channels | Individual for V & I | Individual for V & I and for both channels | Individual for V & I | Individual for V & I and for both channels |                   |
| Current Limit adjustment   | 100mA to max  |  |  |  |                      |  |                      |  |                   |
| Display Accuracy           | V : ± (1% + 1 digit), I : ± (1% + 3 digit)  |  |  |  |                      | ± 3D (Typically ± 2D)                      |                      |  |                   |
| Remote Sense               | -   |  |  |  |                      | 2V Max.                                    |                      |  |                   |
| Internal Resistance        | ≤ 10mΩ  |  |  |  |                      |  |                      |  |                   |
| Recovery Time              | ≤ 50μs  |  |  |  |                      | ≤ 100μs                                    |                      |  |                   |
| Temp. Coefficient          | ≤ ± (0.05% +10mV/°C)  |  |  |  |                      | ≤ ± (0.05% +5mV/°C)                        |                      |  |                   |
| Stability                  | ≤ 2.5mV at full load  |  |  |  |                      |  |                      |  |                   |
| Protection                 | Built in overheat, Over load, Short circuit protections, Over and under mains/line voltage protection |  |  |  |                      |  |                      |  |                   |
| Insulation                 | Between chassis & output terminal > 10MΩ at 100Vdc, Between chassis & AC plug > 50MΩ at 500Vdc        |  |  |  |                      |  |                      |  |                   |
| <b>General Information</b> |   |  |  |  |                      |  |                      |  |                   |
| Input Supply               | 230 VAC ± 10% / 50Hz  |  |  |  |                      |  |                      |  |                   |
| Operation condition        | 0 to 50°C RH 95%  |  |  |  |                      |  |                      |  |                   |
| Dimension (W X H X D)      | 165 X 215 X 360mm   |  |  |  |                      | 204 x 161 x 342mm                          | 412 x 161 x 342mm    | 204 x 161 x 342mm                          | 412 x 161 x 342mm |
| Weight (approx)            | 7.5kg   | 7.7kg                                      | 7.7kg  | 7.7kg  | 9kg                  | 18kg                                       | 10.5kg               | 22kg                                       |                   |

Subject to Change

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**Scientific Mes-Technik Pvt. Ltd.**

B-14, Industrial Estate, Pologround, Indore 452 015, India

☎ 0731-2422330/31/32/33

✉ sales@scientificindia.com

🏠 www.scientificindia.com

Bengaluru 080-23452635  
Chennai 044-42054180  
Gujarat +917567463752  
Hyderabad +917095228811  
Kanpur +919981329105

✉ bangalore@scientificindia.com  
✉ chennai@scientificindia.com  
✉ gujarat@scientificindia.com  
✉ hyderabad@scientificindia.com  
✉ up@scientificindia.com

Kolkata +919673162333  
Mumbai +919850901735  
New Delhi +918770013379  
Pune +919603828884



✉ kolkata@scientificindia.com  
✉ mumbai@scientificindia.com  
✉ ndelhi@scientificindia.com  
✉ pune@scientificindia.com