



Models IT6800

Programmable Power Supply

IT6800 Series DC Programmable Power supply

- Nice appearance, VFD display
- Low ripple and noise
- 16 operation states storage
- Limit voltage protection
- Over current/temperature protection
- High accuracy and high resolution
- Free software for control and calibration



| Parameter | | IT6821 | IT6822 | IT6823 | IT6831 | IT6832 | IT6833 | IT6834 |
|--|---------|---|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Output Rating (0 °C - 40 °C) | Voltage | 0 ~ 18V | 0 ~ 32V | 0 ~ 72V | 0~18V | 0~32V | 0~72V | 0~150v |
| | Current | 0 ~ 5A | 0 ~ 3A | 0 ~ 1.5A | 0~10A | 0~6A | 0~3A | 0~1.2A |
| | LVP | 0 ~ 19V | 0 ~ 33V | 0 ~ 73V | 0~19V | 0~33V | 0~73A | 0~151V |
| Load Regulation | Voltage | (rated currents≤3A) < 0.01%+3mV (rated currents≤10A) < 0.02%+5mV | | | | | | |
| | Current | < 0.01%+3mA | | | | | | |
| Line Regulation | Voltage | < 0.01%+3mV | | | | | | |
| | Current | < 0.1%+2mA | | | | | | |
| Programming Resolution | Voltage | 10mV | | | | | | |
| | Current | 10mA | | | | | | |
| Readback Resolution | Voltage | 10mV(<20V); 100mV (≥20V) | | | | | | |
| | Current | 10mA | | | | | | |
| Programming Accuracy (25 °C ± 5 °C) | Voltage | ≤0.05%+10mV | ≤0.05%+15mV | ≤0.05%+10mV | ≤0.05%+15mV | ≤0.05%+15mV | ≤0.05%+15mV | ≤0.1%+38mV |
| | Current | 0.2%+10mA | | | | | | |
| Readback Accuracy (25 °C ± 5 °C) | Voltage | ≤0.05%+15mV (<20V) | ≤0.05%+20mV (<20V) | ≤0.05%+15mV (<20V) | ≤0.05%+20mV (<20V) | ≤0.05%+20mV (<20V) | ≤0.05%+20mV (<20V) | ≤0.1%+38mV (<20V) |
| | | ≤0.05%+120mV (≥20V) | ≤0.05%+20mV (≥20V) | ≤0.05%+120mV (≥20V) | ≤0.05%+120mV (≥20V) | ≤0.05%+120mV (≥20V) | ≤0.05%+120mV (≥20V) | ≤0.1%+120mV (≥20V) |
| | Current | < 0.1%+15mA | | | | | | |
| Ripple (20Hz~20MHz) | Voltage | ≤0.5mVrms/3mVp-p | ≤0.5mVrms/4mVp-p | ≤0.5mVrms/3mVp-p | ≤0.5mVrms/3mVp-p | ≤0.5mVrms/4mVp-p | ≤0.5mVrms/4mVp-p | ≤0.6mVrms/7mVp-p |
| | Current | 5mA | | | | | | |
| Temperature Coefficient(0 °C ~ 40 °C) | Voltage | < 0.02%+5mV | | | | | | |
| | Current | < 0.1%+5mA | | | | | | |
| Readback Temperature Coefficient | Voltage | < 0.02%+10mV (<20V), < 0.02%+100mV(≥20V) | | | | | | |
| | Current | < 0.1%+15mA | | | | | | |

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