

PFR-100 Specifications

The specifications apply when the PFR-100 is powered on for at least 30 minutes.

| | Model | | PFR-100L | PFR-100M |
|--|--|--|---|--|
| OUTPUT RATING | Rated Output Voltage Rated Output Current Rated Output Power | | 50V 10A 100W | 250V 2A 100W |
| REGULATION(CV) | Load Regulation (*2) Line Regulation (*1) | | 10mV 3mV | 33mV 5mV |
| REGULATION(CC) | Load Regulation (*9) Line Regulation (*1) | | 10mA 8mA | 3.2mA 1.2mA |
| RIPPLE & NOISE (*3) | Vp-p (*4) Vr.m.s.(*5) A r.m.s. | | 50mV 4mV 10mA | 150mV 15mV 2mA |
| PROGRAMMING ACCURACY | Voltage Current | 0.1% of setting + 0.2% of setting + | 40mV 20mA | 200mV 2mA |
| MEASUREMENT ACCURACY | Voltage Current | 0.1% of reading + 0.2% of reading + | 40mV 20mA | 200mV 2mA |
| RESPONSE TIME | Rise Time (*6) Fall Time (*7) Transient Response Time (*8) | Rated load Rated load No load | 50ms 100ms 500ms 1.5ms | 200ms 300ms 3000ms 2ms |
| PROGRAMMING RESOLUTION | Voltage Current | | 2mV 1mA | 10mV 0.1mA |
| MEASUREMENT RESOLUTION | Voltage Current | | 2mV 1mA | 10mV 0.1mA |
| PROTECTION FUNCTION | Over Voltage Protection (OVP) Over Current Protection (OCP) Under Voltage Limit (UVL) Over Temperature Protection (OTP) Low AC Input Protection (AC-Fail) Power Limit (Power Limit) | Setting range Setting range Setting range Operation Operation Operation | 5~55V 1~11A 0~52.5V Turn the output off. Turn the output off. Turn the output off. | 5~275V 0.2~2.2A 0~262.5V Turn the output off. Turn the output off. Turn the output off. |
| FRONT PANEL DISPLAY ACCURACY, 4 DIGITS | Voltage Current | 0.1% of reading + 0.2% of reading + | 40mV 20mA | 200mV 2mA |
| ENVIRONMENT CONDITION | Operating Temperature Storage Temperature Operating Humidity Storage Humidity | | 0°C to 40°C -20°C to 70°C 20% to 80% RH; No condensation 20% to 85% RH; No condensation | |
| READBACK TEMP. COEFFICIENT (After A 30 Minute Warm-up) | Voltage Current | | 100ppm/°C 200ppm/°C | |
| OTHER | Analog Control | | Yes | |

| | | | |
|------------------------|-------------------------------------|--|---|
| | Interface AC Input | | USB, RS-232/RS-485; Factory option: LAN/GPIB 85~265VAC, 47~63Hz, single pahse |
| DIMENSIONS & WEIGHT | 70(W)x124(H)x300(D)mm; Approx.2.5kg | | |

Notes:

- *1: At 85 ~ 132Vac or 170 ~ 265Vac, constant load.
- *2: From No-load to Full-load, constant input voltage. Measured at the sensing point in Remote Sense.
- *3: Measure with JEITA RC-9131B (1:1) probe
- *4: Measurement frequency bandwidth is 10Hz to 20MHz.
- *5: Measurement frequency bandwidth is 5Hz to 1MHz.
- *6: From 10%~90% of rated output voltage, with rated resistive load.
- *7: From 90%~10% of rated output voltage, with rated resistive load.
- *8: Time for output voltage to recover within 0.1% + 10mV of its rated output for a load change from 50 to 100% of its rated output current.
- *9: For load voltage change, equal to the unit voltage rating, constant input voltage.