

700 Series Digital Display DC Power Supplies



718-3D
18V, 3A



718-5D
18V, 5A



730-3D
30V, 3A

- *3½ Digit LED Readout of Voltage and Current*
± 0.5% Reading, ± 2 Digits Accuracy
- *< 1 mV rms Ripple and Noise*
- *< 1 μs Recovery Time*
- *Automatic Constant-Voltage, Constant-Current Crossover*
- *Adjustable Current Limiting*
- *Series Operation*
- *Parallel Operation**
- *Remote Control**

The 700 Series of single output power supplies bracket the most often used DC voltage and current ranges and offer superior performance in terms of voltage and current regulation, low ripple and metering capabilities. All provide isolated outputs with high resistance and high potential insulation. Operating features include constant voltage and constant current modes, mode indicators, adjustable current limits and automatic overload recovery. All units are voltage stackable and selected units are capable of shunt operation and voltage tracking. CE is available for the 700 Series.

**Models 718-3D, 718-5D, 730-3D*



7110-3D
110V, 3A



775-5D
75V, 5A



760-3D
60V, 3A



735-10D
35V, 10A



718-20D
18V, 20A



718-10D
18V, 10A

700 Series Digital Display DC Power Supplies

Front Panel
730-3D, 718-5D,
718-3D



Controls and Indicators

- ① Digital meter shows input voltage or current with $3\frac{1}{2}$ digits and $\pm 0.5\%$ reading ± 2 digits accuracy.
- ② Meter switch selects the output voltage or current for display.
- ③ Coarse and fine voltage controls are used to adjust the output voltage level.
- ④ Constant voltage mode LED indicator.
- ⑤ Output Terminals with bus bar for selecting output polarity. The ground terminal is at earth ground.
- ⑥ Hi/low current range switch for best meter resolution. Full Scale resolution is 1.999 amp at low range setting.
- ⑦ Constant current mode LED indicator.
- ⑧ Coarse and fine current controls are used to adjust the current output limit and level. If the set current limit is exceeded, automatic constant current mode is entered. Thus both the power supply and the circuit under test are protected from overload.

key specifications

| Model | 718-3D | 718-5D | 718-10D | 718-20D | 730-3D | 735-10D | 760-3D | 775-5D | 7110-3D |
|--------------------|--|-------------------|-------------------------------|--------------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------|
| Output Voltage | 0 to 18V continuously variable | | | | 0 to 30 V | 0 to 35 V | 0 to 60 V | 0 to 75 V | 0 to 110 V |
| Output Polarity | Positive or negative | | | | | | | | |
| Output Current | 0 to 3 A | 0 to 5 A | 0 to 10 A | 0 to 20 A | 0 to 30 A | 0 to 10 A | 0 to 3 A | 0 to 5 A | 0 to 3 A |
| Constant Voltage | | | | | | | | | |
| Ripple Voltage | ≤0.5mV rms | ≤1mV rms | ≤1mV rms | ≤1mV rms | ≤1mV rms | ≤1mV rms | ≤1mV rms | ≤1mV rms | ≤1mVrms |
| Regulation Line | ≤0.01%+3mV | ≤0.01%+3mV | ≤0.01%+3mV | ≤0.01%+3mV | ≤0.01%+3mV | ≤0.01%+3mV | ≤0.01%+3mV | ≤0.01%+3mV | ≤0.01%+3mV |
| Regulation Load | ≤0.01%+3mV | ≤0.01%+5mV | ≤0.02%+5mV | ≤0.02%+5mV | ≤0.01%+3mV | ≤0.02%+5mV | ≤0.01%+5mV | ≤0.01%+5mV | ≤0.01%+5mV |
| Recovery Time | ≤100μs | ≤100μs | ≤100μs | ≤100μs | ≤100μs | ≤100μs | ≤100μs | ≤100μs | ≤100μs |
| Constant Current | | | | | | | | | |
| Ripple Current | ≤3mA rms | ≤3mA rms | ≤3mA rms | ≤5mA rms | ≤3mA rms | ≤5mA rms | ≤3mA rms | ≤5mA rms | ≤5mA rms |
| Regualtion Line | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA |
| Regulation Load | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA | ≤0.2%+3mA |
| Voltmeter | 3½ digit 0.5" LED ± (0.5% of reading + 2 digits) | | | | | | | | |
| Ammeter | 3½ digit 0.5" LED ± (0.5% of reading + 2 digits) | | | | | | | | |
| Insulation | | | | | | | | | |
| Chassis & Terminal | ≥20MΩ, 500Vdc | ≥20MΩ, 500Vdc | ≥20MΩ, 500Vdc | ≥100MΩ, 1kVdc | ≥20MΩ, 500Vdc | ≥20MΩ, 500Vdc | ≥20MΩ, 500Vdc | ≥20MΩ, 500Vdc | ≥20MΩ, 500Vdc |
| Chassis AC Plug | ≥30MΩ, 500Vdc | ≥30MΩ, 500Vdc | ≥30MΩ, 500Vdc | ≥100MΩ, 1kVdc | ≥30MΩ, 500Vdc | ≥100MΩ, 1kVdc | ≥30MΩ, 500Vdc | ≥100MΩ, 1kVdc | ≥100MΩ, 1kVdc |
| Size (W x H x D) | 5x5½x11½in. 128x145x285 mm | | 10x5½x13⅞in. 255x145x225mm | 10x5½x16½ in. 225x145x420mm | 5x5½x11⅞ 128x145x285mm | 10x5½x16½ in. 255x145x420mm | 10x5½x13⅞ in. 255x145x335mm | 10x5½x16½in. 255x145x420 mm | |
| Weight | 8.8 lbs., 4.0 kg | 12.1 lbs., 5.5 kg | 25.3 lbs., 11.5 kg | 40.7 lbs., 18.5 kg | 11 lbs., 5 kg | 40.7 lbs., 18.5 kg | 25.3 lbs., 11.5 kg | 40.7 lbs., 18.5 kg | 29.7 lbs., 13.5 kg |
| Power Requirements | 100V, 120V, 220V, 240V ac ± 10% 50/60 Hz User Switchable | | | | | | | | |