

700 Series Digital Display DC Power Supplies



718-3D
18V, 3A



718-5D
18V, 5A



730-3D
30V, 3A

- $3\frac{1}{2}$ 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 3½ 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	$\leq 0.5\text{mV rms}$	$\leq 1\text{mV rms}$	$\leq 1\text{mV rms}$	$\leq 1\text{mV rms}$	$\leq 1\text{mV rms}$	$\leq 1\text{mV rms}$	$\leq 1\text{mV rms}$	$\leq 1\text{mV rms}$	$\leq 1\text{mV rms}$
Regulation Line	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+3\text{mV}$
Regulation Load	$\leq 0.01\%+3\text{mV}$	$\leq 0.01\%+5\text{mV}$	$\leq 0.02\%+5\text{mV}$	$\leq 0.02\%+5\text{mV}$	$\leq 0.01\%+3\text{mV}$	$\leq 0.02\%+5\text{mV}$	$\leq 0.01\%+5\text{mV}$	$\leq 0.01\%+5\text{mV}$	$\leq 0.01\%+5\text{mV}$
Recovery Time	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$	$\leq 100\mu\text{s}$
Constant Current									
Ripple Current	$\leq 3\text{mA rms}$	$\leq 3\text{mA rms}$	$\leq 3\text{mA rms}$	$\leq 5\text{mA rms}$	$\leq 3\text{mA rms}$	$\leq 5\text{mA rms}$	$\leq 3\text{mA rms}$	$\leq 5\text{mA rms}$	$\leq 5\text{mA rms}$
Regulation Line	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$
Regulation Load	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$	$\leq 0.2\%+3\text{mA}$
Voltmeter	3½ digit 0.5" LED $\pm (0.5\%$ of reading + 2 digits)								
Ammeter	3½ digit 0.5" LED $\pm (0.5\%$ of reading + 2 digits)								
Insulation									
Chassis & Terminal	$\geq 20\text{M}\Omega, 500\text{Vdc}$	$\geq 20\text{M}\Omega, 500\text{Vdc}$	$\geq 20\text{M}\Omega, 500\text{Vdc}$	$\geq 100\text{M}\Omega, 1\text{kVdc}$	$\geq 20\text{M}\Omega, 500\text{Vdc}$				
Chassis AC Plug	$\geq 30\text{M}\Omega, 500\text{Vdc}$	$\geq 30\text{M}\Omega, 500\text{Vdc}$	$\geq 30\text{M}\Omega, 500\text{Vdc}$	$\geq 100\text{M}\Omega, 1\text{kVdc}$	$\geq 30\text{M}\Omega, 500\text{Vdc}$	$\geq 100\text{M}\Omega, 1\text{kVdc}$	$\geq 30\text{M}\Omega, 500\text{Vdc}$	$\geq 100\text{M}\Omega, 1\text{kVdc}$	$\geq 100\text{M}\Omega, 1\text{kVdc}$
Size (W x H x D)	5x5½x11½ in. 128x145x285 mm		10x5½x13¾ in. 255x145x225 mm	10x5½x16½ in. 225x145x420 mm	5x5½x11¾ in. 128x145x285 mm	10x5½x16½ in. 255x145x420 mm	10x5½x13¾ in. 255x145x335 mm	10x5½x16 in. 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 $\pm 10\%$ 50/60 Hz User Switchable								