

PROGRAMMABLE DC POWER SUPPLY

FA-851 Programmable Power Supply is controlled by Micro Processor Unit (MPU) that can easily connect communication interface RS-232 or GPIB to computer in order to satisfy users' demand for auto-testing and auto-control.

The voltage and current are completely controlled by 12 bits D/A Converter with higher resolution and accuracy. Also, the digitalization of system makes a speedy, precise and convenient input of information controlled by keyboard.

The Over Voltage Protection function (OVP) and Over Current Protection function (OCP) is set with software and detected with hardware to achieve protected function precisely and speedily in order to secure users from danger by using the instrument.



Specifications	FA-851	Readback accuracy (25 ±5 °C)	
Output Voltage Current OVP	0~32 V x 2.0~6 V x1 0~2 A x 2.0~5 A x1 0~33 V x 2.0~7 V x1	Voltage Current	≤0.05%+10mV (+20 mV, rating voltage >36V) ≤ 0.1% + 5 mA
Load Effect Voltage Current	≤ 3 mV (≤ 5 mV rating current > 3.0 A) ≤ 3 mA (≤ 5 mA rating current > 3.0 A)	Readback temperature coefficient Voltage Current	≤ 100 ppm+10 mV (+20mV, rating volt. >36 V) ≤ 100 ppm+5mA (+10mA, rating curr. >3.0A)
Source Effect Voltage Current	≤ 3 mV ≤ 3 mA	Response time Voltage Up Voltage Down	≤ 10% ~ 90% ≤ 100 mS 90% ~ 10% ≤ 100 mS (≥10% rating load)
Resolution Voltage Current OVP	10 mV (20 mV, rating voltage >36 V) 1 mA (2 mA, rating current >3.5 A) 10 mV (20 mV, rating voltage >36V)	Drift Voltage Current	≤ 100ppm + 10mV (20mV rating voltage >36V) ≤ 150 pm + 10 mA
Program accuracy (25 ±5 °C) Voltage Current OVP	≤ 0.05% + 20 mV (+40 mV, rating voltage >36 V) ≤ 0.1% + 5 mA (+10 mA, rating current >3.5 A) ≤ 0.05% + 20 mV (+40 mV, rating voltage >36 V)	Track operation Tracking error Series (Load Effect)	0.1% + 20 mV ≤ 20 mV
Ripple & Noise (20 Hz ~ 20 MHz) Voltage Current	Ripple: ≤1 mVrms / 3mVp-p Noise: ≤2 mVrms/30mVp-p ≤ 3 mA rms (≤5mAmsm rating current >3.0 A)	Parallel operation Program accuracy (25 ±5°C) Load Effect Source Effect	≤ Voltage 0.05% + 10 mV (+20 mV, rating voltage >36 V) Voltage ≤3mV (≤5mV, rating current >3.0 A) current ≤ 6 mA Voltage ≤3 mV; current ≤6 mA
Temperature coefficient (0 ~ 40 °C) Voltage Current	≤ 100 ppm + 3mV ≤ 100 ppm+ 3 mA	Memory Store/Recall sets	0-99
Readback resolution Voltage Current	10 mV (20 mV, rating voltage >36 V) 1 mA (2mA, rating current > 3.0 A)	Timer Setting time Resolution Function	0.1 sec ~ 99:59 secs (max 99:59 x 100) 0.1 sec Auto step running (for output working loop)
		Interface Standard Optional	RS-232C GPIB (IEEE488.2)
		Power Source Power supply	100 / 120 / 220 / 230 V AC ± 10% 50/60 Hz
		Dimensions & Weight Dimensions Weight	230 (W.) x 140 (H.) x 380 (D.) Approx. 10 kg