

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 temperature coefficient	
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	$\pm 100 \text{ ppm} + 10 \text{ mV}$ (+ 20 mV, rating volt. >36 V) $\leq 100 \text{ ppm} + 5 \text{ mA}$
Load Effect Voltage Current	$\leq 3 \text{ mV}$ ($\leq 5 \text{ mV}$ rating current > 3.0 A) $\leq 3 \text{ mA}$ ($\leq 5 \text{ mA}$ rating current > 3.0 A)	Drift Voltage Current	$\pm 100 \text{ ppm} + 10 \text{ mV}$ (+20 mV rating voltage >36V) $\pm 150 \text{ pm} + 10 \text{ mA}$
Source Effect Voltage Current	$\leq 3 \text{ mV}$ $\leq 3 \text{ mA}$	Track operation Tracking error	$0.1\% + 20 \text{ mV}$
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)	Parallel operation Voltage Current OVP	$\leq 0.05\% + 10 \text{ mV}$ (+ 20 mV, rating voltage >36 V) $\leq 0.1\% + 10 \text{ mA}$ $\leq 0.05\% + 10 \text{ mV}$
Program accuracy (25 \pm 5 $^{\circ}$ C) Voltage Current OVP	$\leq 0.05\% + 10 \text{ mV}$ (+40 mV, rating voltage >36 V) $\leq 0.1\% + 5 \text{ mA}$ (+10 mA, rating current > 3.5 A) $\leq 0.05\% + 10 \text{ mV}$ (+40 mV, rating voltage > 36 V)	Load Effect Voltage Current	$\leq 3 \text{ mV}$ ($\leq 5 \text{ mV}$, rating current > 3.0 A) $\leq 6 \text{ mA}$
Ripple & Noise (20 Hz ~ 20 MHz) Voltage Current	Ripple: $\leq 1 \text{ mVrms} / 3 \text{ mVp-p}$ Noise: $\leq 2 \text{ mVrms} / 30 \text{ mVp-p}$ $\leq 3 \text{ mA rms}$ ($\leq 5 \text{ mA rms}$ rating current > 3.0 A)	Source Effect Voltage Current	$\leq 3 \text{ mV}$ $\leq 6 \text{ mA}$
Temperature coefficient (0 ~ 40 $^{\circ}$ C) Voltage Current	$\leq 100 \text{ ppm} + 3 \text{ mV}$ $\leq 100 \text{ ppm} + 3 \text{ mA}$	Memory	Store / Recall, 0-99 sets
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 Interface	0.1 sec ~ 99 min 59 secs (max 100) 0.1 sec Auto step running (for output working loop) RS-232C, optional GPIB
		Power Source	AC 100 V, 120 V, 220 V $\pm 10\%$ 230 V +8% / -6%, 50 / 60 Hz
		Dimensions & Weight Dimensions Weight	230 (W.) x 140 (H.) x 380 (D.) 10 kg
		Accessories	Mains cable, User and programming manual