



- 3 Outputs, Max. Power up to 195W
- Low Ripple Noise: <350 uVrms/2mVpp
- Excellent Linear Regulation Rate and Load Regulation Rate
- Fast Transient Response Time: <50us
- Channel isolation: CH1 || CH2,CH3
- Standard OVP/OCP/OTP protection functions
- Standard Timing function
- Built in V,A,W measurements and waveform display
- · Support Output Delay, Analysis, Monitor, Preset functions
- Independent control for each channel
- 3.5 Inch TFT Display
- Connectivity: USB Host& Device, LAN, RS232, Digital IO, Support USB-GPIB(Opt.)

DP800 Series Programmable DC Power Supply

Observable Clean Stable Reliable Affordable

Complete Connectivity (Std. or Opt.)



Product Dimension: Width×Height×Depth=239mm x 157mm x 418mm Weight: 9 kg

Typical Applications

·R&D lab General purpose testing ·Quality Assessment inspection ·Bias power for RF/MW circuits

·Automotive electronic test Production testing

·Device or circuit characterization and troubleshooting

Intuitive User Interface



DP831A GUI



Timing Output



Monitor Setup





RIGOI	🖌 Trig Out OTP 🖧 🖬
DO	D1 D2 D3
CtriSourc	ce: CH1
TrigCdt	: OutpClose
OutpSign	al: Square
Polarity	: Positive
Period	: 1.000000 s
Duty	: 50 %
Enable	: No
DataLine	Trig Out CtrlSrc Enable No ⇔1/3
	Trigger In/Out



DP832 GUI



Output Analysis Function



Specifications

All the specifications are guaranteed when the instrument has been working for more than 30 minutes under the specified operation temperature. Unless otherwise noted, the specifications are applicable to all the channels of the specified model.

DP800 Specifications

Model		DP832A	DP832	DP831A		
Channels			3			
DC Output (0°C to 4	10℃)					
Voltage/current		CH1: 0 to 30V/0 to 3A CH2: 0 to 30V/0 to 3A CH3: 0 to 5V/0 to 3A CH1: 1mV to 33V/1mA to 3.3A	CH1: 10mV~33V/1mA~3.3A	CH1: 0 to 8V/0 to 5A CH2: 0 to +30V/0 to 2A CH3: 0 to -30V/0 to 2A CH1: 1mV ~ 8.8V/0.1mA ~ 5.5A		
OVP/OCP		CH2: 1mV to 33V/1mA to 3.3A CH3: 1mV to 5.5V/1mA to 3.3A	CH2: 10mV~33V/1mA~3.3A CH3: 10mV~5.5V/1mA~3.3A	CH2: 1mV ~ 33V/0.1mA ~ 2.2A CH3: -1mV ~ -33V/0.1mA ~ 2.2A		
Load Regulation Ra	ate ±(Output P	ercentage + Offset)				
Voltage		<0.01%+2mV				
Current		<0.01%+250uA				
Linear Regulation Rate ±(Output		Percentage + Offset)				
Voltage		<0.01%+2mV				
Current		<0.01%+250uA				
Ripples and Noise ((20Hz to 20MF	lz)				
Normal Mode Volta	ge	<350µVrms/2mVpp				
Normal Mode Curre	ent	<2mArms				
Common Mode Cur	rrent	<1.5µArms				
Annual Accuracy ^[1]	(25°C ±5°C) ±	(Output Percentage + Offset)				
Programming	Voltage	0.05% + 10mV		0.1%+20mV		
riogramming	Current	0.2% + 10mA		0.2%+10mA		
Readback	Voltage	0.05% + 5mV		0.1%+20mV		
Readback	Current	0.15%+ 5mA		0.2%+10mA		
Resolution						
Programming	Voltage	1mV	10mV With high-resolution option: 1mV	1mV		
	Current	1mA	1mA	CH1: 0.3mA CH2/CH3: 0.1mA		
Readback	Voltage	0.1mV	10mV With high-resolution option: 0.1mV	0.1mV		
	Current	0.1mA	1mA With high-resolution option: 0.1mA	0.1mA		
Display	Voltage	1mV	10mV With high-resolution option: 1mV	1mV		
	Current	1mA	10mA With high-resolution option: 1mA	1mA		
Transient Response	e Time					
Less than 50µs for output to recover to within 15mV following a change in output current from full load to half load or vice versa.						
Command Processing Time ¹²						
<100ms						
Temperature Coeffi	cient per°C (O	utput Percentage + Offset)				
Voltage		CH1/CH2: 0.01%+5mV CH3: 0.01%+2mV		0.01%+2mV		
Current Stability ^[3] ±(Output Percentage + 0		0.01%+2mA Offset)		0.02%+3mA		

CH1: 0.03%+1mV

CH2/CH3: 0.02% + 2mV CH1: 0.1%+3mA

CH2/CH3: 0.05% + 1mA

CH1/CH2: 0.02%+2mV

CH3: 0.01%+1mV

0.05%+2mA

Voltage

Current

Voltage Progra	mming Control Sp	eed (1% within the total variation	range)			
Rise	Full Load	CH1/CH2: <50ms CH3: <11ms		CH1: <11ms CH2/CH3: <50ms		
	No Load	CH1/CH2: <25ms CH3: <10ms		CH1: <10ms CH2/CH3: <25ms		
Fall	Full Load	CH1/CH2: <30ms CH3: <13ms		CH1: <13ms CH2/CH3: <30ms		
	No Load	CH1/CH2: <400ms CH3: <200ms		CH1: <200ms CH2/CH3: <400ms		
OVP/OCP						
Accuracy ±(Ou Offset)	tput Percentage +	0.5%+0.5V/0.5%+0.5A				
Activation Time		1.5ms (OVP≥3V) <10ms (OVP<3V and OCP)				
Mechanical						
Dimensions		239mm(W) x 157mm(H) x 418mm(D)				
Weight		9.0kg				
Power						
AC Input (50Hz to 60Hz)		100Vac <u>+</u> 10%, 115Vac <u>+</u> 10% 220Vac <u>+</u> 10%, 230Vac <u>+</u> 10% (maximum 250VAC)				
I/O						
USB Device		1	1	1		
USB Host		1	1	1		
LAN		1	Option	1		
RS232		1	Option	1		
Digital IO		1	Option	1		
Environment						
Working Tempe	Temperature Full Rated Value Output: 0°C to 40°C Under Relatively Higher Temperature: the linearity of the output current reduces to 50% at the highest temperature 55°C					
Cooling Method Fa		Fan Cooling				
Product Regulation CE, cTUVus		CE, cTUVus				

Note:

[1] The accuracy parameters are acquired via calibration under 25°C after 1-hour warm-up.

[2] The maximum time required for the output to change accordingly after receiving the APPLy and SOURce commands.

[3] The variation of the output within 8 hours after 30-minute warm-up when the load circuit and environment temperature are constant.

Ordering Information

	Description	Order Number
Model	Programmable DC Power (3 Channels)	DP831A
	Programmable DC Power (3 Channels)	DP832A
	Programmable DC Power (3 Channels)	DP832
Standard Accessories	Power cord	-
	USB data cable	CB-USB-150
	One shorted device	-
	CD (including User's Guide and Programming Guide)	-
	One fuse (50T-025H 250V 2.5A)	-
	Quick Guide	-
Optional Accessories	1mV & 1mA High resolution option (DP832)	DP8-HI-RES
	4 Lines Trigger In&Out(DP832)	DP8-DIGITAL-IO
	On-line Monitoring and analysis (DP832)	DP8-AFK
	RS232 and LAN interface (DP832)	DP8-INTERFACE
	USB to GPIB Converter	USB-GPIB
	Rack Mount Kit	RM-DP-1

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