

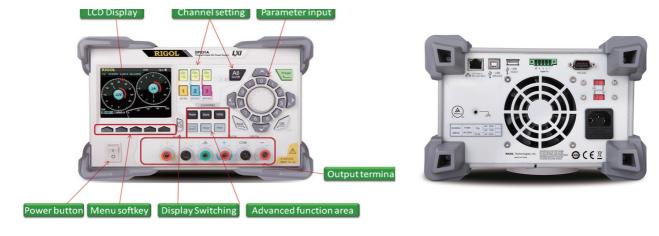


- 3 Outputs, Max. Power up to 195W
- Low Ripple Noise: <350 uVrms/2mVpp
- Excellent Linear Regulation Rate and Load Regulation Rate
- Fast Transient Response Time: <50us
- Channel isolation: CH1 || CH2,CH3
- Standard OVP/OCP/OTP protection functions
- Standard Timing function
- Built in V,A,W measurements 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

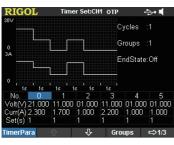
·Automotive electronic test Production testing

·Device or circuit characterization and troubleshooting

Intuitive User Interface



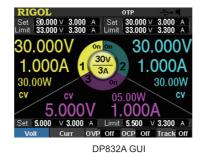
DP831A GUI

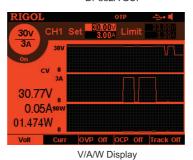


Timing Output



Monitor Setup

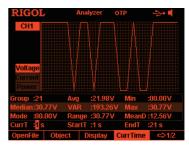




RIGOI	🖌 🕹 Trig Out OTP				
DO	D1 D2 D3				
CtrlSource: CH1					
TrigCdt	: OutpClose				
OutpSign	al: Square				
Polarity	: Positive				
Period	: 1.000000 s				
Duty	: 50 %				
Enable	: No				
DataLine	Trig Out CtrlSrc Enable No ⇔1/3				
Trigger In/Out					



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

Current

0.05%+2mA

Model		DP832A	DP832	DP831A				
Channels			3					
DC Output (0°C to	o 40℃)							
Voltage/current		CH1: 0 to 30V/0 to 3A CH2: 0 to 30V/0 to 3A CH3: 0 to 5V/0 to 3A	CH1: 0 to 8V/0 to 5A CH2: 0 to +30V/0 to 2A CH3: 0 to -30V/0 to 2A					
OVP/OCP		CH2: 1mV to 33V/1mA to 3.3A	CH1: 10mV~33V/1mA~3.3A CH2: 10mV~33V/1mA~3.3A CH3: 10mV~5.5V/1mA~3.3A	CH1: 1mV ~ 8.8V/0.1mA ~ 5.5A CH2: 1mV ~ 33V/0.1mA ~ 2.2A CH3: -1mV ~ -33V/0.1mA ~ 2.2A				
Load Regulation	Rate ±(Output	Percentage + 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 Nois	e (20Hz to 20N	/Hz)						
Normal Mode Vol		<350µVrms/2mVpp						
Normal Mode Current		<pre></pre>						
Common Mode Current		<1.5µArms						
Annual Accuracy	^[1] (25℃ ±5℃)	±(Output Percentage + Offset)						
	Voltage	0.05% + 10mV		0.1%+20mV				
Programming	Current	0.2% + 10mA		0.2%+10mA				
	Voltage	0.05% + 5mV		0.1%+20mV				
Readback Current		0.15%+ 5mA						
Resolution	Curront			0.2%+10mA				
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 Respor	ise Time	1		·				
		over to within 15mV following a c	hange in output current from fu	I load to half load or vice versa.				
Command Proces	•	0						
<100ms	0							
	fficient per°C (Output Percentage + Offset)						
Voltage		CH1/CH2: 0.01%+5mV CH3: 0.01%+2mV		0.01%+2mV				
Current		0.01%+2mA	0.02%+3mA					
Stability [3] ±(Outp	ut Percentage	1						
Voltage		CH1/CH2: 0.02%+2mV CH3: 0.01%+1mV		CH1: 0.03%+1mV CH2/CH3: 0.02% + 2mV				

CH1: 0.1%+3mA

CH2/CH3: 0.05% + 1mA

Voltage Prog	ramming Control	Speed (1% within the total va	riation range)				
Rise	Full Load	CH1/CH2: <50ms		CH1: <11ms			
	T ull Load	CH3: <11ms		CH2/CH3: <50ms			
	No Load	CH1/CH2: <25ms		CH1: <10ms			
		CH3: <10ms		CH2/CH3: <25ms			
Fall	Full Load	CH1/CH2: <30ms		CH1: <13ms			
		CH3: <13ms		CH2/CH3: <30ms			
	No Load	CH1/CH2: <400ms CH3: <200ms		CH1: <200ms CH2/CH3: <400ms			
OVP/OCP		0110. \$200113		012/0113. 400113			
Accuracy ±(Output Percentage + a For to For to For							
Offset)		0.5%+0.5V/0.5%+0.5A					
,		1.5ms (OVP≥3V)	1.5ms (OVP≥3V)				
Activation Time		<10ms (OVP<3V and OCP)					
Mechanical							
Dimensions		239mm(W) x 157mm(H) x 418mm(D)					
Weight		9.0kg					
Power							
AC Input		100Vac <u>+</u> 10%, 115Vac <u>+</u> 10%					
(50Hz to 60Hz)		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 Terr	nperature	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 Meth	hod	Fan Cooling					
Product Reg	ulation	CE, cTUVus					

[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

Warranty

Three -year warranty, excluding accessories.

Headquarter

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