



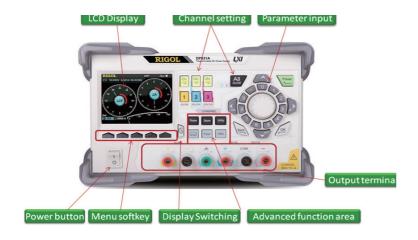


- 3 Outputs, Max. Power up to 195W
- Low Ripple Noise: <350 uVrms/2mVpp
- Excellent Linear Regulation Rate and Load Regulation Rate
- Fast Transient Response Time: <50us
- Channel isolation: CH1 || CH2,CH3
- Standard OVP/OCP/OTP protection functions
- · Standard Timing function
- · Built in V,A,W measurements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

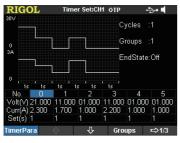
► Typical Applications

- ·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



DP832A GUI



V/A/W Display



Trigger In/Out



DP832 GUI



Output Analysis Function



LAN Setup

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	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		CH1: 1mV to 33V/1mA to 3.3A CH2: 1mV to 33V/1mA to 3.3A CH3: 1mV to 5.5V/1mA to 3.3A	CH2: 10mV~33V/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 Ra	ate ±(Output P	ercentage + Offset)		
Voltage		<0.01%+2mV		
Current		<0.01%+250uA		
_	Rate ±(Output	Percentage + Offset)		
Voltage		<0.01%+2mV		
Current	/00LI- t- 00MI	<0.01%+250uA		
Ripples and Noise	•	,		
Normal Mode Volta		<350µVrms/2mVpp		
Normal Mode Curre Common Mode Cur		<2mArms		
		<1.5μArms (Output Percentage + Offset)		
Annual Accuracy	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		0.2%+10mA
Resolution	100	10.1.070		0.270
Programming			10mV	
	Voltage	1mV	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			
		ver to within 15mV following a ch	ange in output current from ful	l load to half load or vice versa.
Command Process	ing Time [2]			
<100ms				
Temperature Coeffi	cient per°C (O	utput Percentage + Offset)		
Voltage		CH1/CH2: 0.01%+5mV CH3: 0.01%+2mV		0.01%+2mV
Current		0.01%+2mA		0.02%+3mA
Stability [3] ±(Output	Percentage +			
Voltage		CH1/CH2: 0.02%+2mV CH3: 0.01%+1mV		CH1: 0.03%+1mV CH2/CH3: 0.02% + 2mV
Current		0.05%+2mA		CH1: 0.1%+3mA CH2/CH3: 0.05% + 1mA

Voltage Progra	amming Control Sp	eed (1% within the total variation	n range)	
Rise	Full Load	CH1/CH2: <50ms		CH1: <11ms
	I dii Lodd	CH3: <11ms		CH2/CH3: <50ms
	No Load	CH1/CH2: <25ms		CH1: <10ms
	140 Load	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		CH3. \200IIIS		CH2/CH3. <400HS
	stand Democraticans I	1		
Offset)	utput Percentage +	0.5%+0.5V/0.5%+0.5A		
Activation Time	e	1.5ms (OVP≥3V)		
	_	<10ms (OVP<3V and OCP)		
Mechanical				
Dimensions		239mm(W) x 157mm(H) x 418r	mm(D)	
Weight		9.0kg		
Power				
AC Input		100Vac <u>+</u> 10%, 115Vac <u>+</u> 10%		
(50Hz to 60Hz	:)	220Vac±10%, 230Vac±10% (m	aximum 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 Temp	erature	Full Rated Value Output: 0°C to Under Relatively Higher Tempe temperature 55°C		ut current reduces to 50% at the highest
Cooling Metho	od	Fan Cooling		
Product Regul	ation	CE, cTUVus		
Note:				

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

oracining innorma	don	
	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

Headquarter RIGOL TECHNOLOGIES, INC.

No.156,Cai He Village, Sha He Town, Chang Ping District, Beijing, 102206 P.R.China Tel:+86-10-80706688 Fax:+86-10-80705070 Email: info@rigol.com

USA

RIGOL TECHNOLOGIES, USA RIGOL TECHNOLOGIES , US/ INC. 7401 First Place, Suite N Oakwood Village OH 44146, USA Toll free: 877-4-RIGOL-1 ×111 Tel: 440-232-4488 ×111 Fax: 440-232-4499 Email: beyondmeasure@ rigoltech.com

Europe RIGOL TECHNOLOGIES EU, Lindbergh str. 4 82178 Puchheim, Germany Tel: +49(0)89-8941895-0 Email: info-europe@ rigoltech.com

٠																																				
:																																				
•																																				
۰																																				
١																																				
٠																																				
•																																				
١																																				
:																																				
۰																																				
١																																				
:																																				
۰																																				
ı																																				

RIGOL® is the registered trademark of RIGOL Technologies, Inc. Product information in this document subject to update without notice. For the latest information about RIGOL's products, applications and services, please contact local RIGOL office or access RIGOL official website: www.rigol.com