

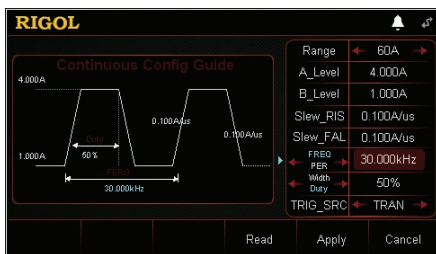
Programmable DC Electronic Loads



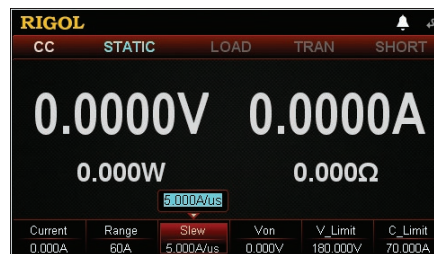
DL3000 is a cost-effective programmable DC electronic load with high performance. With a user-friendly interface and superb performance specifications, DL3000 series provides various interfaces for remote communication to meet your diversified test requirements. It can be widely used in various industries.

- 150V/40A,200W;150V/60A,350W
- Dynamic mode: up to 30 kHz
- Adjustable current slew rate: 0.001 A/μs to 5 A/μs
- Min. readback resolution: 0.1 mV, 0.1 mA
- USB-GPIB interface converter (optional)

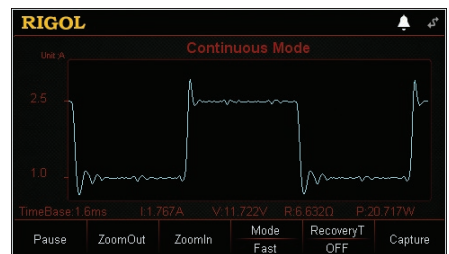
30 kHz dynamic mode



5 A/μs current slew rate



Powerful waveform display function



Key Specifications

Func and Spec	DL3021		DL3021A		DL3031		DL3031A	
	Low Range	High Range	Low Range	High Range	Low Range	High Range	Low Range	High Range
Power	200W				350W			
Voltage	0~150V							
Current	0~40A				0~60A			
Type Min. Operation, Voltage(DC)	40A@1V				60A@1.3V			
CC Mode								
Range	0~4A	0~40A	0~4A	0~40A	0~6A	0~60A	0~6A	0~60A
Resolution	1mA							
Accuracy	±(0.05%+0.05%FS)							
Temperature Coefficient	100ppm/°C							
CV Mode								
Range	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V	0~15V	0~150V
Resolution	1mV	5mV	1mV	5mV	1mV	5mV	1mV	5mV
Accuracy	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)	±(0.05%+0.02%FS)	±(0.05%+0.025%FS)
Temperature Coefficient	50ppm/°C							
CR Mode								
Range	0.08Ω ~ 15Ω	2Ω ~ 15kΩ	0.08Ω ~ 15Ω	2Ω ~ 15kΩ	0.08Ω ~ 15Ω	2Ω ~ 15kΩ	0.08Ω ~ 15Ω	2Ω ~ 15kΩ
Resolution	2mA/Vsense							
Accuracy	Vin/Rset*(0.2%)+0.2% IFS							

CP Mode								
Range	0~200W				0~350W			
Resolution	100mW							
CC Continuous Mode								
Freq Range	0.001Hz~15kHz	0.001Hz~30kHz			0.001Hz~15kHz		0.001Hz~30kHz	
Freq Accuracy	0.8%							
Freq Resolution	±0.5%							
Duty Cycle Range	5%~95%, 1%							
Slew Rate								
CC SlewRate	0.001A/ μs~0.25A/μs	0.001A/μs ~ 2.5A/μs(>5V)	0.001A/ μs~0.3A/μs	0.001A/μs ~ 3A/μs(>5V)	0.001A/ μs~0.25A/μs	0.001A/μs ~ 2.5A/μs(>5V)	0.001A/ μs~0.5A/μs	0.001A/ μs~5A/ μs(>5V)
SlewRate Resolution	0.001A/μs							
Accuracy	5% +10μs							
Current ReadBack								
Range	0~40A				0~60A			
Resolution	1mA	0.1mA			1mA	0.1mA		
Accuracy	±(0.05%+0.05%FS)							
Temperature Coefficient	50ppm/°C							
Voltage ReadBack								
Range	0~150V							
Resolution	0.1mV							
Accuracy	±(0.05%+0.02%FS)							
Temperature Coefficient	20ppm/°C							
Protection Function	Overcurrent protection (OCP), overvoltage protection (OVP), overpower protection (OPP), overtemperature protection (OTP), as well as local/remote reverse voltage (LRV/RRV) protection.							
DRIFT STABILITY								
Current	±(0.01%±10mA)							
Voltage	±(0.01%±10mV)							
Input Resistance	350kΩ							
Interface								
USB DEVICE	●	●	●	●	●	●	●	●
USB HOST	●	●	●	●	●	●	●	●
RS232	●	●	●	●	●	●	●	●
LAN	○	●	○	○	○	○	○	○
Digital I/O	○	●	○	○	○	○	○	○
GPIO	○	○	○	○	○	○	○	○

Ordering Information

	Description	Order No.
Models	Programmable DC Electronic Load (single channel, DC 150 V/40 A 200 W 15kHz 2.5A/us)	DL3021
	Programmable DC Electronic Load (single channel, DC 150 V/40 A 200 W 30kHz 3.0A/us)	DL3021A
	Programmable DC Electronic Load (single channel, DC 150 V/60 A 350 W 15kHz 2.5A/us)	DL3031
	Programmable DC Electronic Load (single channel, DC 150 V/60 A 350 W 30kHz 5.0A/us)	DL3031A
Optional Accessories	LAN Interface	LAN-DL3
	Digital I/O Option	DIGITALIO-DL3
	High Readback Resolution	HIRES-DL3
	High Frequency Option	FREQ-DL3
	High Slew Rate Option	SLEWRATE-DL3
	Terminal Shield	DL-02
	9-Pin RS232 Cable (female-to-female, cross-over)	CB-RS232-A
	USB-GPIB interface converter	USB-GPIB
	Sense Cable	CB-SENSE
	20 A Red and Black Test Lead	CB-20A-780MM
40 A Red and Black Test Lead	CB-40A-780MM	
60 A Red and Black Test Lead	CB-60A-780MM	