

3000-6000 Series Linear DC Power Supply for Laboratory

Description

The 3000/6000 series is designed as a versatile system power supply series. The 3000 series supplies variable single output with 2 analog or digital displays. The 6000 series supplies variable dual outputs with 4 analog or digital displays plus a fixed 5V/5A output. All the variable outputs can be connected in parallel or series to get multiple output currents or voltages. The safety series is designed and manufactured according to IEC-1010-1 requirements.

Features

- 2 or 4 build-in analog/ digital displays
- Constant voltage/ current output
- Short/ external input protection
- Independent, series or parallel tracking on triple model
- Fixed 5V± 0.25V@5A output on triple model
- 1 year warranty



Specifications

	3000 Series	6000 Series
AC INPUT VOLTAGE	ACV 100/ 120/ 220/ 240V +/- 10%, 50/60Hz selected by fuse jumper	
CONSTANT VOLTAGE Load regulation Line regulation Ripple & noise(≤ 100W) Ripple & noise(≥ 100W)	± 0.01% + 2mV ± 0.01% + 2mV ≤ 0.5mVrms ≤ 1mVrms	
CONSTANT CURRENT Load regulation (≤ 100W) Load regulation (≥ 100W) Line regulation Ripple & noise(≤ 100W) Ripple & noise(≥ 100W)	≤ 10mA ≤ 15mA ± 0.01% + 2mA ≤ 2mA rms ≤ 3mA rms	
DISPLAY ACCURACY Analog display (A) Digital display (D)	full scale 3% ≤ 0.1% + 2d	
PROGRAMMING SPEED Rise time (no load) (load) Fall time (no load) (load)	≤ 100mS ≤ 500mS (< 10A), ≤ 1S (≥ 10A) ≤ 2.5S ≤ 250mS	
OUTPUT IMPEDANCE	< 2mΩ + 2uH	
RECOVERY TIME	≤ 100uS to within 0.1% of set voltage (50% to 100% load change)	
FUNCTIONS Series connection Parallel connection	different models can be connected (≤ 240V) same model can be connected (≤ 24A)	
TRACKING OPERATION Tracking error Series regulation	N/A	± 0.2% + 10mV ≤ 0.3% + 10mV
5V FIX OUTPUT Load regulation Line regulation Ripple & noise Voltage accuracy Output current	N/A	≤ 10mV ≤ 5mV ≤ 2mVrms 5V ± 0.25V 5A
OPERATION MODE Independent	N/A	• two independent outputs and 5V fixed output • output from 0 to rating volts and 0 to rating amperes
Series		• output from 0 to ± rating volts at rating amperes • output from 0 to double rating volts at rating amperes
Parallel		• output from 0 to double rating ampere at rating volts
SAFETY STANDARDS	TUV/ GS, EN61010-1	
EMC STANDARDS	EN50081-1; EN50082-1	
BANANA-CLIP	1ea.	2ea.
WEIGHT	3303, 3601 = 6.5kgs 33010 = 15.5kgs	6303 = 13kgs 6603 = 16kgs

◆ Triple output (Dual output with 5V@5A Fixed Output)

Stock No	Type No	AC Input	DC Output	Meter	Safety	Case	P.P.
52001	3303A	100-240V	0-30V, 3A	Analog	II/A	SA	345
52002	3601A	100-240V	0-60V, 1A	Analog	II/A	SA	333
52003	3303AS	230V	0-30V, 3A	Analog		SA	391
52004	3303D	100-240V	0-30V, 3A	Digital	II/A	SD	391
52005	3601D	100-240V	0-60V, 1A	Digital	II/A	SD	379
52006	3303DS	230V	0-30V, 3A	Digital		SD	448
52007	3306D	100-240V	0-30V, 6A	Digital	II/A	MD	563
52008	3603D	100-240V	0-60V, 3A	Digital	II/A	MD	562
52009	33010D	100-240V	0-30V, 10A	Digital	II/A	MD	920

Stock No	Type No	AC Input	DC Output	Meter	Safety	Case	P.P.
52021	6303A	100-240V	0-30V, 3A × 2	Analog	N/A	LA	672
52022	6306A	100-240V	0-30V, 6A × 2	Analog	N/A	LA	989
52023	6603A	100-240V	0-60V, 3A × 2	Analog	N/A	LA	966
52024	6303AS	230V	0-30V, 3A × 2	Analog		LA	767
52025	6303D	100-240V	0-30V, 3A × 2	Digital	N/A	LD	776
52026	6303DS	230V	0-30V, 3A × 2	Digital		LD	839
52027	6306D	100-240V	0-30V, 6A × 2	Digital	N/A	LD	1,081
52028	6603D	100-240V	0-60V, 3A × 2	Digital	N/A	LD	1,058