Programmable Multi Output DC Power Supply

Features

- Multi Output Linear DC Power Supply
- Digitally Controlled Output Settings
- Store / Load 10 Sets of Output Settings in Internal Memory
- USB Interface Provided
- Programmable Arbitrary Variable Output by Feeding Coefficient of the Curve
- User Friendly Front End
- Low Cost General Purpose Laboratory Bench Unit
- Fully Protected against Overload and Short Circuit
- 5V/5A with Over Voltage Crowbar Protection for Digital ICs
- Three Independent Outputs Electrically Isolated from Each Other
- Electrically Floating Outputs up to 500V DC w.r.t. Ground
- Precise Regulation, Low Ripple and Noise for Both Constant Voltage & Current Operation

Technical Specifications

| OUTPUT	32V / 2A	±15V / 0.5A	5V / 5A
Input Voltage		230V AC, ±10%, 50Hz, 1 Phase	
Output Voltage	0 to 32V	12V to 15V	4.50 to 5.50V
Output Current	0 to 2A	0.5A	5A
Line Regulation CV *	±0.01% ±2mV	±0.1%	±0.1%
Load Regulation CV	±0.01% ±2mV	±0.1%	±0.1%
Line Regulation CC *	±0.1% ±250µA	NA	NA
Load Regulation CC	±0.1% ±250µA	NA	NA
Output Ripple CV	1mV rms	1mV rms	1mV rms
Output Ripple CC	0.04% rms	NA	NA
Operating Temp.	0 to 50ºC	0 to 50ºC	0 to 50ºC
Protection	OL/SC (CC type)	OL/SC (fold back type)	OL/SC (fold back type)
O/P OVP	NA	NA	Crowbar Type
Indication (LED)	CV/CC	--	--
3 Digit Display	V & I	Common 3 digit voltmeter with sel. switch	
Display Accuracy	±3 counts	±3 counts	±3 counts
Dimensions (approx.) W x H x D (mm)		430 x 133 x 250	
Weight (approx.)	12 Kg.		

* For 10% variation in input voltage with constant rated load.
** All dimensions are behind the panel and excluding legs.

Normal Programming Mode

In Normal programming mode the user can read and set the voltage and current parameter through PC software.
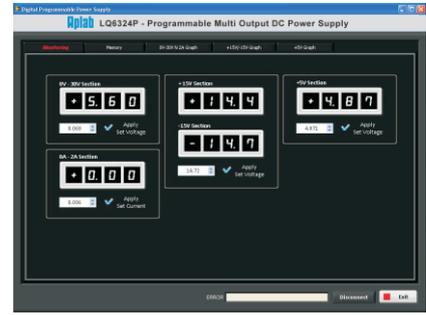
Memory Programming Mode

In memory programming mode the user can recall and store the 10 programmable memory location inside the power supply using PC software.
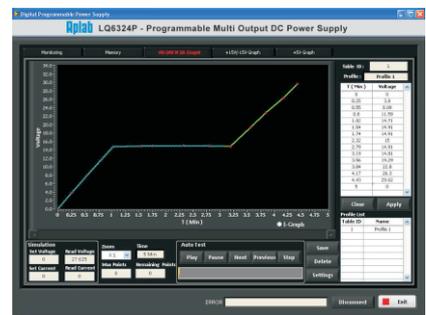
Arbitrary Programming Mode

In arbitrary programming mode, user can set the output voltage / current linearly with respect to time as per your requirement using PC software. In this mode user has to select the time range in sec / min. / hrs. and enter the time duration of simulation in the software. The maximum simulation time duration is limited to 24hrs. Then user can plot any output voltage / current pattern with respect to time using PC software.
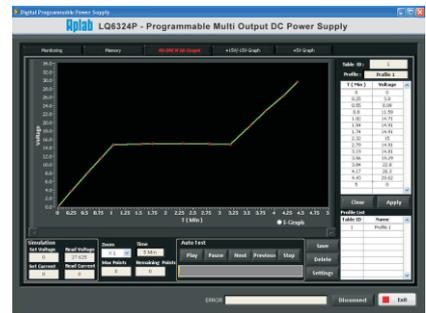
In arbitrary run mode the output of power supply will change linearly as per the user plotted pattern with respect to time and the actual output voltage / current will be read and plotted overlapping the user plotted pattern in PC software.

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