Pro Series Options

Extended Range

For maximum accuracy and repeatability, the typical recommended operating range of a power supply is from 10-100% of the peak current rating of the power supply. Dynatronix offers a patented feature called Extended Range® to accommodate a wider range of outputs. With this feature, a power supply will maintain highly accurate outputs throughout a range of 0.1-100% of the peak output current rating. The power supply will automatically scale it's resolution to the appropriate range, based upon the operator's peak output settings. Any range changes made during the process are transparent to the operator.

Multiple Cell Configurations

A power supply may be configured with multiple cell output capability. Each cell is essentially a stand-alone power supply (note: in some configurations common bulk power source is utilized). Each cell features an individual microprocessor allowing for independent output control. Each cell may also have multiple output channels. Cells may be configured with a common cathode or a common anode.

Multiple Output Channels

Each cell of a power supply may be configured with multiple output channels. Each channel has independent output control, supplying current and voltage up to the maximum output rating of the power supply. A totalizer computes ampere-time of all channels together. In the standard configuration, some features, such as pulse timing settings and start/stop times, are common between channels.

Individual Channel Control

Power supplies with multiple output channels may be configured to start and stop independently from other channels. Each channel also features an individual ampere time counter. Pulse timing parameters remain common among all channels within a cell.

Bias Control

Allows a power supply to be programmed with a bias offset. One bias level can be set for all "forward" off times and a separate bias level can be set for all "reverse" off times. When a nonzero bias level is set, the output of the power supply will go to the bias level instead of zero during the off time. The bias level must use the same regulation mode that the peak setting is using. In current mode, the bias level can be set independently from the operating range which the peak setting is using.

DynaCal II Automatic Calibration Software

The DynaCal II Program (auto version) is designed to work with all Dynatronix Programmable Power Supplies. It can be used to calibrate both serial port and ethernet port controlled power supplies.

DynaCal II will perform all functions of calibration, one channel at a time, or it can calibrate multiple channels. Calibration parameters may be selected individually (fwd, rev, amps, volts), or can be completed automatically in sequence. Built in pauses between amps and volts allow changing loads as required. Built-in pauses between channels also allow changing a load from channel to channel if multiple loads are not available.

(Requires Agilent meter model number 34401A or EXtech 560/570 multimeter for semi-automatic operation.)

PROCESS TECHNOLOGY

ISO 9001:2015
WITH DESIGN CERTIFIED