

SUPPORT

POWER WAVEFORM GENERATOR

D Series power supplies can be programmed to operate as a power waveform generator. Each memory state needs to be programmed for the desired voltage or current for a specific time period. An example of a power waveform generator and its corresponding programming values are shown in figure 1 and table 1, respectfully.

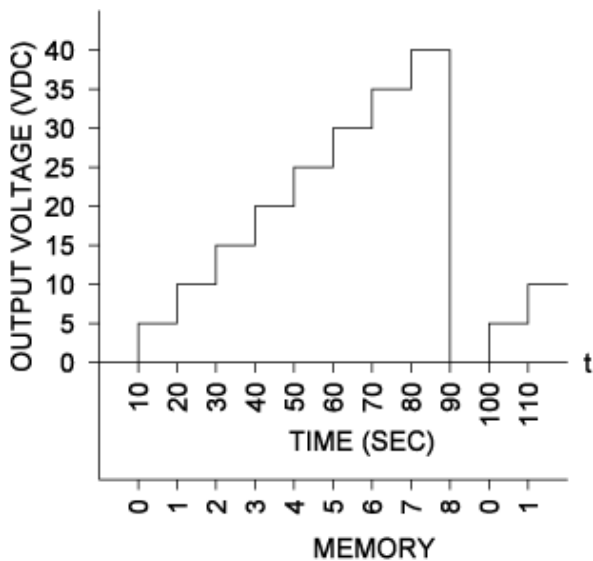


Figure 1. Sawtooth Output Voltage

Memory	Voltage Set (V)	Current Set (A)	Over Voltage Trip (V)	Over Current Trip (A)	Period (S)
0	0	200	55	220	10
1	5	200	55	220	10
2	10	200	55	220	10
3	15	200	55	220	10
4	20	200	55	220	10
5	25	200	55	220	10
6	30	200	55	220	10
7	35	200	55	220	10
8	40	200	55	220	10
9	40	200	55	220	9998

Table 1. Ramp Generator Sequential Step Program

In this particular example, the voltage set point was changed in 10 second intervals while the current, over voltage trip, and over current trip were kept constant. To make the power supply repeat the voltage ramp, 9998 is entered for step 9. This causes the memory state to jump back to 0 after completing step 8. To start the ramp generator, set the power supply to memory state 0, press the arm key, and then the start key. Press the stop key to terminate operation.