Test Script Settings and Run SOP

GW INSTEK
Simply Reliable

PSU / PSW / PFR series

Test Script Application – Solving Complex Test Pattern without PC control

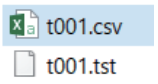
PSW series

PFR series

PSU series

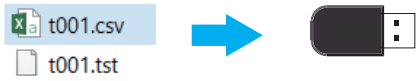
If you want to test products and parts under various voltage and current conditions, they are generally controlled by a PC. However, the power supply of GW Instek has its own TEST Script function that the power supply itself controls the complicated condition.
Complex testing is possible by inputting items necessary for testing in the CSV file, saving the file in the USB memory, storing it in the power supply itself, and executing it. Because you can store 10 patterns on the main body, if you repeat several tests, you can respond by simply replacing the execution contents.

1. Please make sure that the USB flash drive contains .csv and .tst files in root directory and they should have identical filenames as below.

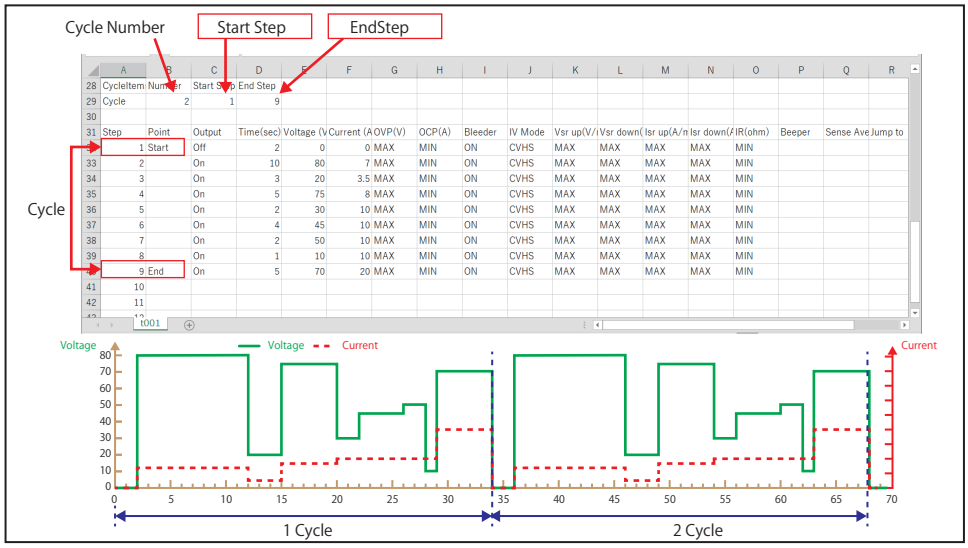


You can download the example file from following address.
http://www.gwinstek.com/en-global/Page/The_setting_of_Test_Script
Note: This example file is for PSW80-40.5

2. Save t001.csv and t001.tst to your USB' s root directory and confirm the saved file names are identical in your USB flash drive



3. Open t001.csv provided by GW Instek and edit output voltage, current, time, cycle, etc. for step1~step9. Please refer to the following chart. For cycle setting, first of all, set the step numbers for Start and End. Start and End should be placed corresponding to the step positions.



This example, each step is a setting and there are 9 steps to make up a cycle.
The set cycle was repeated for two times.

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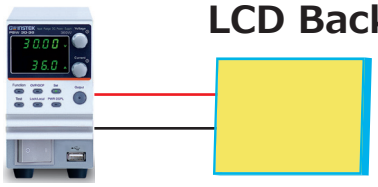
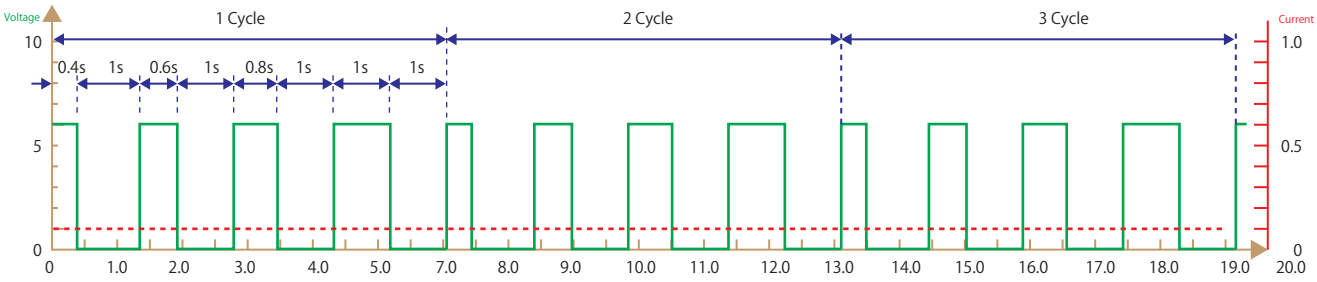
Test Script Demo

LCD Back light ON/Off





t001.csv
t001.tst

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
28	CycleItem	Number	Start Ste	End Step											
29	Cycle	0	1	9											
30															
31	Step	Point	Output	Time(sec	Voltage (\	Current (	OVP(V)	OCP(A)	Bleeder	IV Mode	Vsr up(V/	Vsr down	Isr up(A/t	Isr down(	IR(ohm)	Be
32	1	Start	On	0.4	6	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
33	2		On	1	0	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
34	3		On	0.6	6	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
35	4		On	1	0	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
36	5		On	0.8	6	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
37	6		On	1	0	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
38	7		On	0.9	6	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
39	8		On	1	0	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
40	9	End	On	1	6	0.1	MAX	MIN	ON	CVHS	MAX	MAX	MAX	MAX	MIN	
41	10			7.7												
42	11															
43	12															

t001

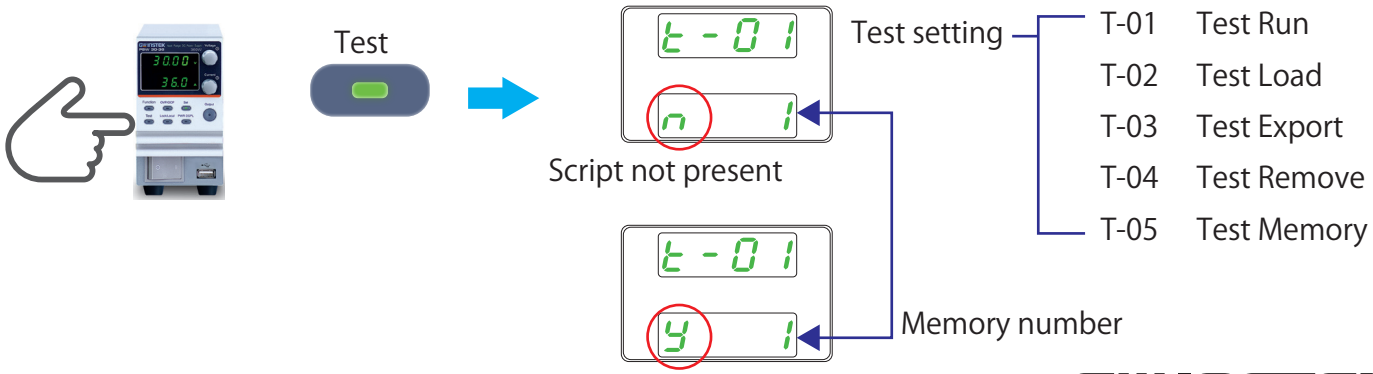
1. Change Items:
- Cycle(The number of Cycle) Cycle counts.=> 0 (run infinite cycle)
- Time => 0.4 s, 1 s, 0.5 s, ⋯, 1 s
- Voltage => 6, 0, ⋯, 6 V
- Current => 0.1 A

2. Save “t001.csv” and “t001.tst” file to USB flush memory. “001” is same name, t001,tst is no needs to edit.

3. After saving the t0XX.csv and t0XX.tst file to USB flush memory,
insert the USB flash drive into the USB slot on the PSW front panel and wait for approximately 5 seconds
(Message on appeared as below).

Test Mode

1. Press Test key on the PSW front panel to enter Sequence function setting.



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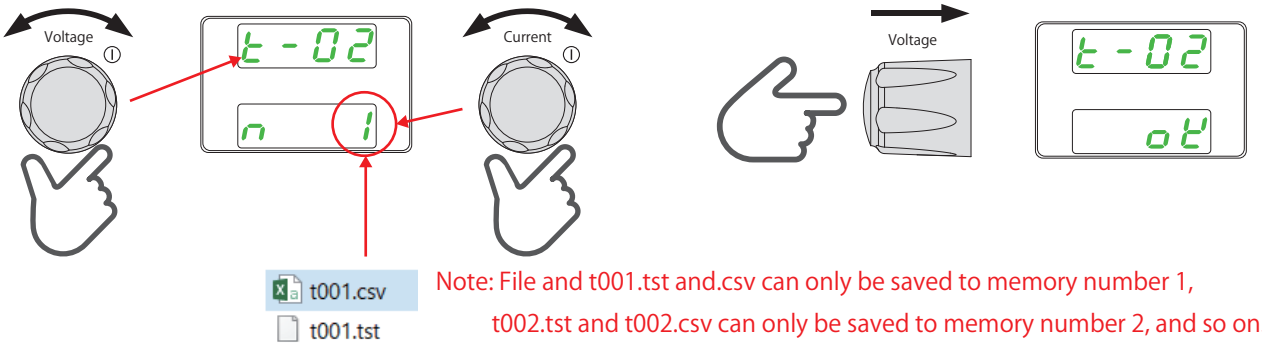
Save Test Script

Rotate the voltage knob to select T-02 and rotate the current knob to select the desired memory location (1~10).
Press the voltage knob to copy setting file from USB to memory of PSW.

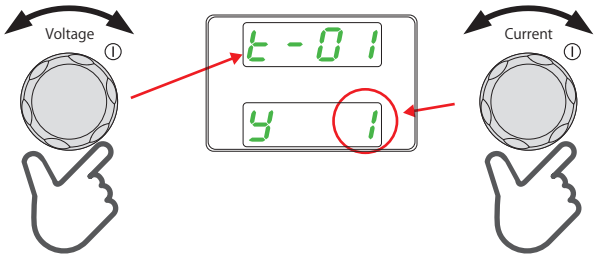


t001.csv
t001.tst

Note: File and t001.tst and.csv can only be saved to memory number 1,
t002.tst and t002.csv can only be saved to memory number 2, and so on.

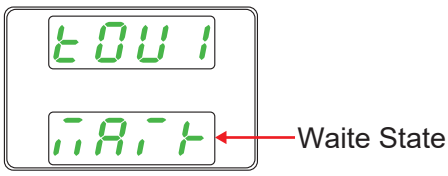
RunTest Script (Manual)

1. Please rotate the voltage knob to select T-01 and rotate the current knob to select the wanted file for sequence execution in correspondence to memory location (1~10).



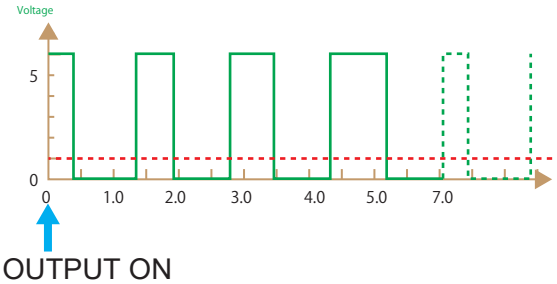
The loading screen will appear. For example if memory slot #1 is loaded, the following screen will appear

2. Press the voltage knob to take sequence execution from internal memory
and to appear below picture which is successful executing setting of PSW and to wait for pressing “output” to run.

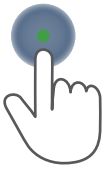


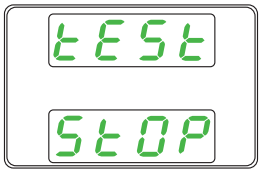
The LED flashes.
Test

3. Press “output” to start sequence execution.



4. Press “output” again to stop execution and so on. Press “test” to exit sequence execution.



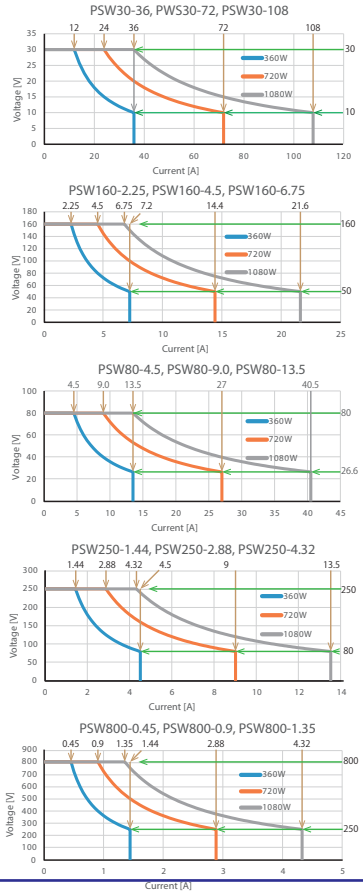


PSW series

360W 750W 1080W

Rated Output Power	Model	Rated Output Voltage	Rated Output Current
360W	PSW30-36	30	36
	PSW80-13.5	80	13.5
	PSW160-7.2	160	7.2
	PSW250-4.5	250	4.5
	PSW800-1.44	800	1.44
720W	PSW30-72	30	72
	PSW80-27	80	27
	PSW160-14.4	160	14.4
	PSW250-9	250	9
	PSW800-2.88	800	2.88
1080W	PSW30-108	30	108
	PSW80-40.5	80	40.5
	PSW160-21.6	160	21.6
	PSW250-13.5	250	13.5
	PSW800-4.32	800	4.32

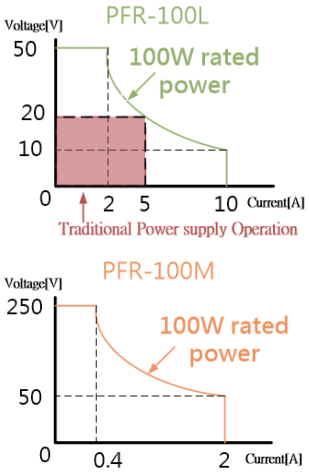
Constant Power Output for 3 Times Multi-Range (V&I) Operation
Voltage Rating:30V / 80V/ 160V/ 250V/ 800V,
Output Power Rating: 360/720/1080W
Output ON/OFF Delay Function
CV/CC Priority Mode
Adjustable Slew Rate
Bleeder Circuit Control
Internal Resistance function
Series Operation: Up to 2 unit※
Parallel Operation: Up to 3 units
Protection: OVP, OCP, OHP,UVL, AC Fail, FAN Fail
Standard Interface: LAN, USB, Analog Control Interface
Option: GPIB-USB Adaptor, RS232-USB Cable
LabView Driver



PFR series

Model		PFR-100L	PFR-100M
OUTPUT RATING	Output Voltage	50V	250V
	Output Current	10A	2A
	Output Power	100W	100W

Constant Power Output for 5 Times Multi-range(V&I) Operation
Voltage Rating:50V / 250V Output Power Rating: 100W
Natural Convection Cooling Design (Fan-less Structure)
Preset Memory Function
Output ON/OFF Delay Function
CV, CC Priority Mode
Adjustable Slew Rate
Bleeder Circuit Control
Web Server Monitoring and Control
Protections: OVP,OCP, AC FAIL and OTP
Support Front and Rear Panel Output
Standard Interface: USB, RS-232/485 , Option: LAN+GPIB (Factory Install)
External Analog Control and Monitor Function
Remote Sensing Function



PSU series

	Output ratings		
	Rated Output Voltage	Rated Output Current	Rated Output Power
PSU6-200	6	200	1200
PSU12.5-120	12.5	120	1500
PSU20-76	20	76	1520
PSU40-38	40	38	1520
PSU60-25	60	25	1500
PSU100-15	100	15	1500
PSU150-10	150	10	1500
PSU300-5	300	5	1500
PSU400-3.8	400	3.8	1520
PSU600-2.6	600	2.6	1560

Voltage output : 6V / 12.5V / 20V / 40V/60V/100V/150V/300V/400V/600V
Power output：1200W ~ 1560W
Output ON/OFF Delay Function
C.V/ C.C priority mode
Adjustable Slew Rate
Bleeder Control function
Internal Resistance function
Protection: OVP, OCP, OHP,UVL, AC Fail, FAN Fail
1U height and 19" Rack Mount Size
Standard: USB, LAN, RS-232, RS-485, analog control
Option: GPIB, Isolated analog interface (voltage control/ current control)
LabView Driver

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