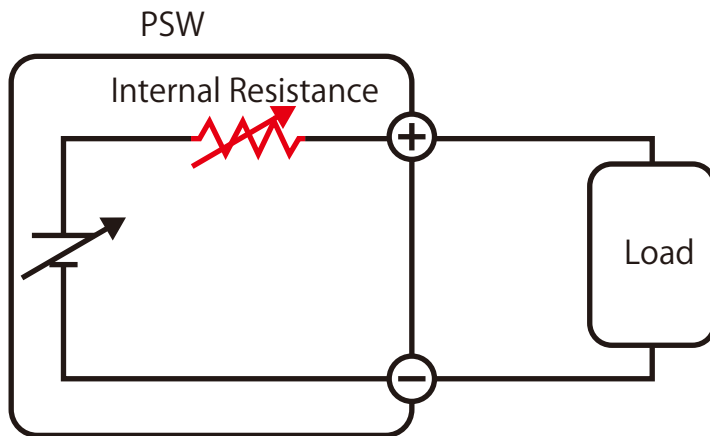## PSW can simulate power sources that have internal resistances such as lead acid batteries.

On the PSW, the internal resistance of the power supply can be user-defined in software.
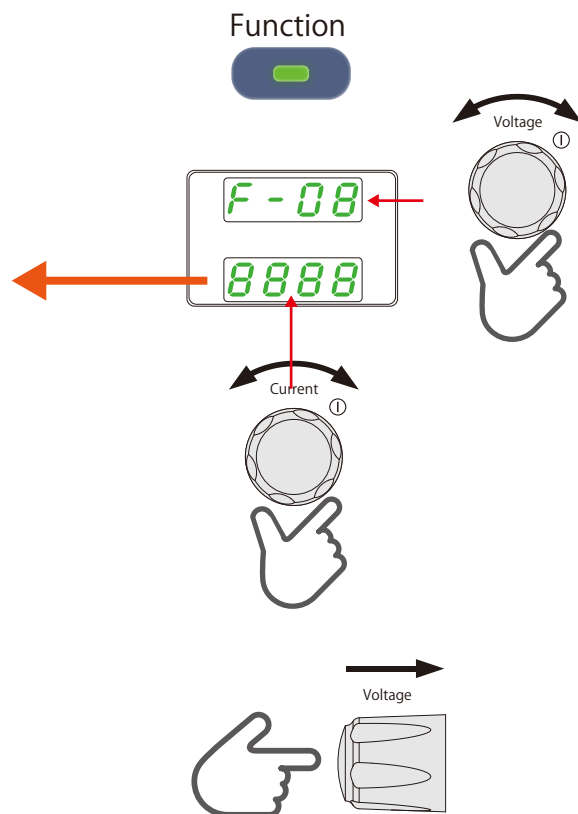
When the internal resistance is set it can be seen as a resistance in series with the positive output terminal. This allows the power supply to simulate power sources that have internal resistances such as lead acid batteries.

PSW

When the internal resistance is set, it can be seen as a resistance in series with the positive output terminal of PSW.
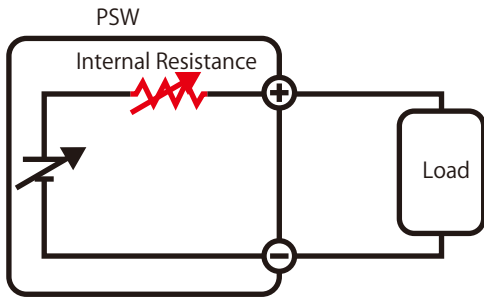
Internal Resistance Range

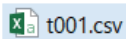| Unit Model	Internal Resistance Range
PSW 30-36	0.000 ~ 0.833 Ω
PSW 30-72	0.000 ~ 0.417 Ω
PSW 30-108	0.000 ~ 0.278 Ω
PSW 80-13.5	0.000 ~ 5.926 Ω
PSW 80-27	0.000 ~ 2.963 Ω
PSW 80-40.5	0.000 ~ 1.975 Ω
PSW 160-7.2	0.000 ~ 22.222 Ω
PSW 160-14.4	0.000 ~ 11.111 Ω
PSW 160-21.6	0.000 ~ 7.407 Ω
PSW 250-4.5	0.00 ~ 55.55 Ω
PSW 250-9	0.00 ~ 27.77 Ω
PSW 250-13.5	0.00 ~ 18.51 Ω
PSW 800-1.44	0.0 ~ 555.5 Ω
PSW 800-2.88	0.0 ~ 277.8 Ω
PSW 800-4.32	0.0 ~ 185.1 Ω

Function

Voltage

F - 08

8888

Current

Voltage

PSW has test script function.

There is also an internal resistance setting in the setting items of the test script.

PSW
Internal Resistance
Load

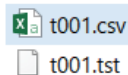With PSW's test script function, PSW can automatically change the resistance value over time without PC control.

t001.csv Enter time, voltage, current, and internal resistance value in the CSV file using spreadsheet or text editor such as Microsoft Excel.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
28	CycleItem:	Number	Start Step	End Step												
29	Cycle	2	1	6												
30																
31	Step	Point	Output	Time(sec)	Voltage (V	Current (A	OVP(V)	OCP(A)	Bleeder	IV Mode	Vsr up(V/n	Vsr down('	Isr up(A/m	Isr down(A	IR(ohm)	Beeper
32	1	Start	On	2	5	3	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	0	
33	2		On	2	5	3	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	0.1	
34	3		On	2	5	3	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	0.2	
35	4		On	1	5	3	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	0.2	
36	5		On	3	5	3	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	0.4	
37	6	end	On	2	5	3	MAX	MAX	ON	CVHS	MAX	MAX	MAX	MAX	0.5	

Time   Internal resistance

t001.csv
t001.tst

Save t001.tst (dedicated file: do not need to edit) with the same name as the entered CSV file on the USB.

Insert USB flash memory into PSW and load test script into PSW's internal memory.

Test

Press the TEST button, read the memory to be executed and press OUTPUT to execute the test script.

Refer to the SOP of the test script for detailed operation method.

Cycle [Number] Range : 1~1000000000 ; 0 (INF) = Infinity.

Cycle [Start Step] Range : 1~20000.

Cycle [End Step] Range : 1~20000.

[Step] Range : 1~20000.

[Point] Parameter : Start, End, Exit, Pause, Trigin

[Output] Parameter : 0 (OFF), 1 (ON), OFF, ON.

[Time] Range : 0.05 sec ~ 20 days.

[Voltage] Parameter : MIN, MAX, <value>.

[Current] Parameter : MIN, MAX, <value>.

[OVP] Parameter : MIN, MAX, <value>.

[OCP] Parameter : MIN, MAX, <value>.

[Bleeder] Parameter : 0 (OFF), 1 (ON), OFF, ON.

[IV Mode] Parameter : 0 (CVHS), 1 (CCHS), 2 (CVLS), 3 (CCLS), CVHS, CCHS, CVLS, CCLS.

[Vsr up] Parameter : MIN, MAX, <value>.

[Vsr down] Parameter : MIN, MAX, <value>.

[Isr up] Parameter : MIN, MAX, <value>.

[Isr down] Parameter : MIN, MAX, <value>.

[IR] Parameter : MIN, MAX, <value>.

[Beeper] Parameter : OFF, ON.

[Sense Average] Parameter : 0 (LOW), 1 (MID), 2 (HIGH), LOW, MID, HIGH.

[Jump to] Range : 1~20000.

[Jump Cnt] Range : 1~10000.