

APS-7000 Series

Setting the Voltage Range



Range

Range setting

Soft-key settings



1. Press Range to access the Range menu.
2. Set the voltage range with the scroll wheel or with the F1 ~ F4 soft-keys.
Range AUTO, 600V(option), 310V, 155V
Soft-keys AUTO, 600V(option), 310V, 155V
3. Press Enter to confirm the Range setting.

Setting the Voltage



V

Voltage setting

Preset voltage settings



1. Press the V key. The ACV parameter will be editable.
2. Set the voltage with the scroll wheel/keypad or with the F1 ~ F4 soft-keys.
Range 0 volts ~ full range
Soft-keys DEF1, DEF2, MAX, MIN
3. Press Enter to confirm the voltage setting.

Setting the Current



I rms

I rms



Min/Max settings

1. Press I rms to access the I rms menu.
2. Set the I rms level with the scroll wheel/keypad or with the F3 ~ F4 soft-keys. The MAX and MIN soft-keys set the I rms level to the maximum and minimum, respectively.
Range 0.00 ~ full scale A (dependant on the voltage range)
Soft-keys MAX, MIN
3. Press Enter to confirm the current setting.

Setting the Frequency



F

Frequency setting

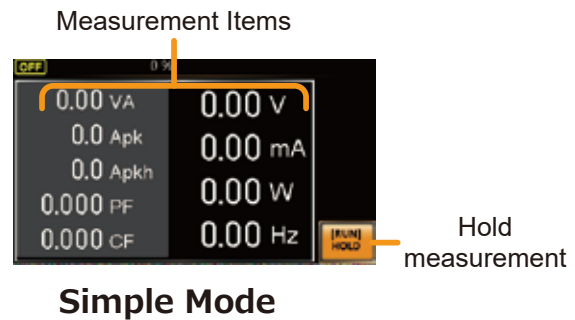
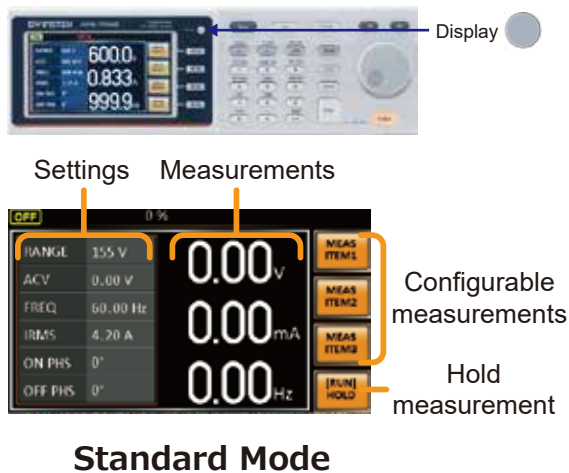
Preset frequency settings



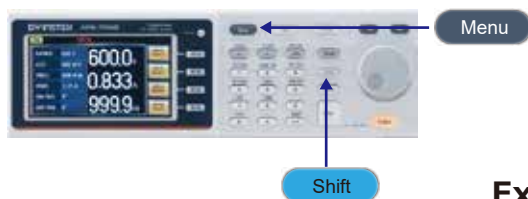
1. Press Shift + F to access the Freq Limit menu.
2. Set the frequency limit with the scroll wheel/keypad or with the F3 ~ F4 soft-keys. The MAX and MIN soft-keys set the frequency limit to the maximum and minimum, respectively.
Range 45.00 ~ 500.0Hz (999.9Hz option)
Soft-keys MAX, MIN
3. Press Enter to confirm the limit setting.

Display Modes

The APS-7000 power supply has two display modes. The standard display mode shows the power supply setup on the left and the 3 configurable measurements on the right. The simple display mode shows all measurement items available on the APS-7000.

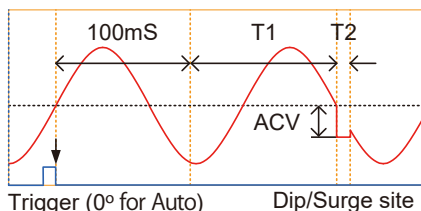


Menu

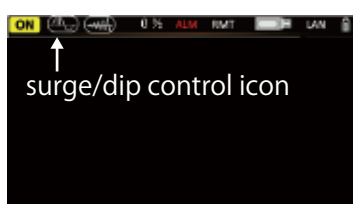


Example: Select Srurge/Dip

1. Press the **Menu** key.
The Menu setting will appear on the display.
2. Use the scroll wheel to go to item 2, Surge/Dip Control and press Enter.
Alternatively, use the short-cut key **shift+8**. Shift 8
3. Go to the Mode setting using the scroll wheel and press Enter.
Select the desired mode and press Enter again to confirm.
The Manual mode will allow you to manually trigger the surge/dip site. The Automatic setting will automatically trigger the surge/dip site. Mode Manual, Auto, OFF
4. Set the remaining parameters.
Note: these parameters are not visible when MODE is set to OFF. Remaining parameters ACV, T1, T2
5. Press Exit[F4] to exit from the Surge/Dip Control settings.



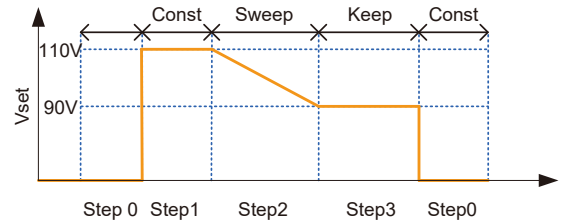
Status Bar



6. After exiting the menu, the surge/dip control icon will appear in the status bar.



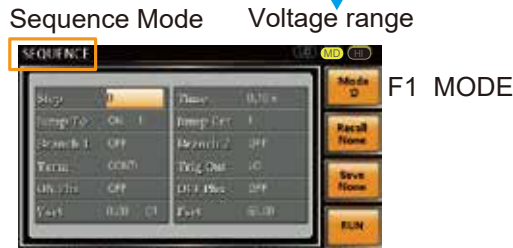
Sequence setting:



Range: LO(155V), MID(310V), HI(600V)

Select Sequence

1. Test (Hand icon pointing to Test button)
2. F1 (Hand icon pointing to F1 button) Mode
3. Enter (Hand icon pointing to Enter button) Step setting



Example: 25Vrms -> 35V -> 45V -> 70V -> 140V -> 200 -> 25 -> 35Vrms

Range 300V
TEST key
Mode(F1)
Scroll wheel => Sequence
Enter

Step 1
Jump Cnt 0
Term CONTI
Vser 0.00 => 25.00

Step 2
Jump Cnt 0
Term CONTI
Vser 0.00 => 35.00

Step 3
Jump Cnt 0
Term CONTI
Vset 0.00 => 45.00

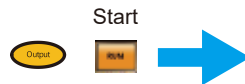
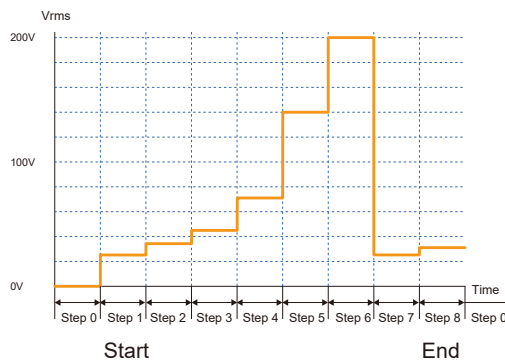
Step 4
Jump Cnt 0
Term CONTI
Vset 0.00 => 70.00

Step 5
Jump Cnt 0
Term CONTI
Vset 0.00 => 140.00

Step 6
Jump Cnt 0
Term CONTI
Vset 0.00 => 200.00

Step 7
Jump cnt 0
Term CONTI
Vset 0.00 => 25.00

Step 8
Jump cnt 1
Vset 0.00 => 35.00



cycle=jump cnt-1

The example above shows how the secondary voltage settings affect how the voltage is output in each step.

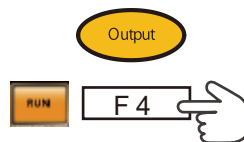
Step no.	0	1	2	3
Vset (V)	110	90	N/A	
2nd Setting	CT	CT	SP	KP

Vset	0 ~ 310V (range dependent) (600V optional)
Secondary settings	CT (Constant), KP (Keep), SP (Sweep) Note: Step 0 can only be set to CT or SP.
Fset	45.00 ~ 500.0Hz(999.9Hz optional)

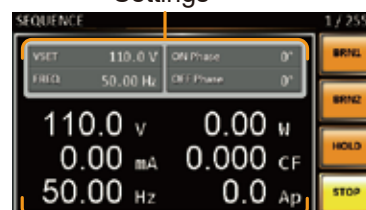
Step:	0 ~ 255
Time:	0.01 ~ 999.99s
Jump to:	Step ON, OFF, 0 ~ 255
Jump Cnt:	1 ~ 255, 0 ※1
Branch 1, 2:	ON, OFF, 0 ~ 255
Time:	0.01 ~ 999.99s
Jump Cnt:	1 ~ 255, 0 ※1
Term:	CONTI, END, HOLD
Trig Out:	HI, LO
ON Phase:	ON, OFF
ON Phase:	0~ 359°
OFF Phase:	ON, OFF

※1 Note: A setting of 0 will set the number of jumps to infinite.

Running a Sequence.



Settings



Current step / Total Step
Branch 1
Branch 2
Hold/Con
Stop/Run

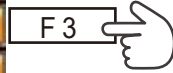
GW INSTEK

Save a Simulation or Sequence to Local Memory

Simulation settings can be saved to one of 10 memory slots (SIM0 ~ SIM9).

Sequence settings can be saved to one of 10 memory slots (SEQ0 ~ SEQ9).

Save a Simulation to Local Memory



Simulation settings can be saved to one of 10 memory slots (SIM0 ~ SIM9).

Press Save[F3] and then long press a number key when prompted.

Long Push
Number Key

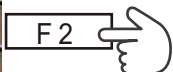
Long press a number key when prompted.

A message will appear when the save is successful.



long press

Recall a Simulation to Local Memory



Simulation settings can be recalled from one of 10 memory slots (SIM0 ~ SIM9).

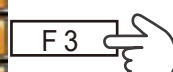
Press Recall[F2] and then press a number key when prompted.

Prss Number Key

A message will appear when the settings are recalled successfully.



Save a Sequence to Local Memory



Simulation settings can be saved to one of 10 memory slots (SIM0 ~ SIM9).

Press Save[F3] and then long press a number key when prompted.

Long Push
Number Key

Long press a number key when prompted.



long press

Recall a Sequence to Local Memory



Simulation settings can be recalled from one of 10 memory slots (SIM0 ~ SIM9).

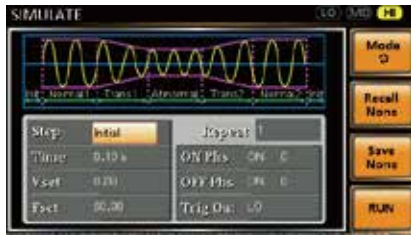
Press Recall[F2] and then press a number key when prompted.

Prss Number Key

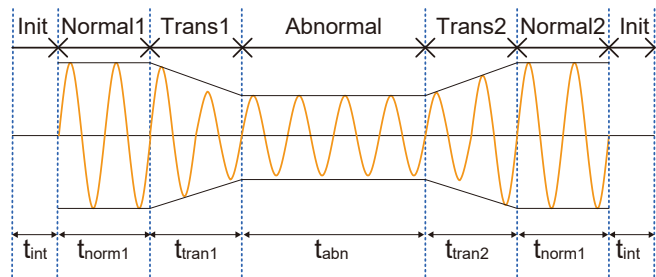
A message will appear when the settings are recalled successfully.



Simulate setting:



Range: LO(155V), MID(310V), HI(600V)

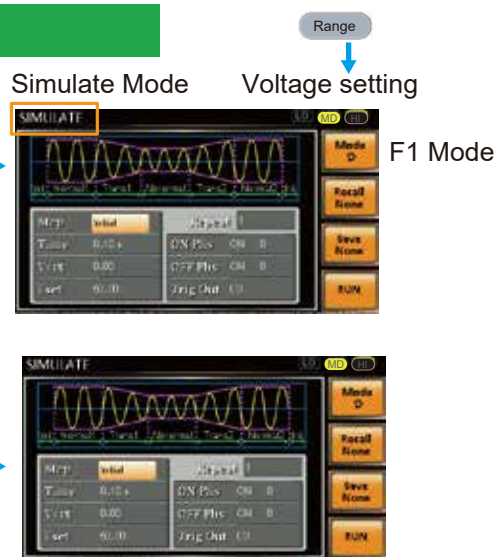


Time: 0.01 ~ 999.99s, 0(Trans 1 and Trans2)

Note: For Trans1 and Trans2, it supports a value of 0, which will skip the step.

Select Simulate

- 1 Test
- 2 F1 Mode
- 3 Enter Step setting



t_{int}	=0.01s~999.99s
t_{norm1}	=0.01s~999.99s
t_{tran1}	=0.01s~999.99s, 0(Skip)
t_{abn}	=0.01s~999.99s
t_{tran2}	=0.01s~999.99s, 0(Skip)
t_{norm1}	=0.01s~999.99s
t_{int}	=0.01s~999.99s

Example: 200V to 0V setting

Step Internal => Normal 1
Repeat 1=> OFF
Time 0.10s
Vset 0.00 => 200.0

Step Internal => Trans 1
Repeat OFF
Time 0.02s ~ 999.99s or 0(Skip)
Vset 0.00

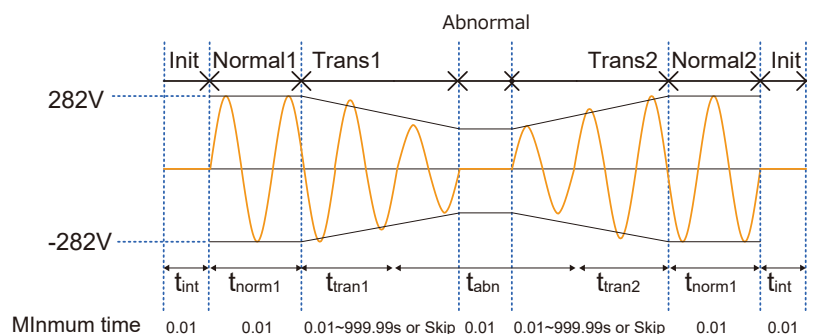
Step Internal => Abnormal
Repeat OFF
Time 0.10s
Vset 0.00

Step Internal => Trans 2
Repeat OFF
Time 00.1s ~ 999.99s or 0(Skip)
Vset 200.00

Step Internal => Normal 2
Repeat 1=> OFF
Time 0.10s=>0.50s
Vset 0.00 => 200.0

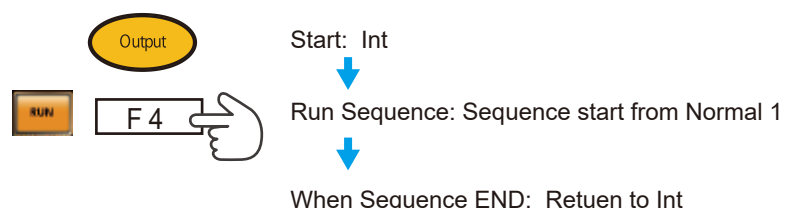
OUTPUT ON
F4 Start Sequence

F3 Save Test => 0 Memory Num.
F2 Recall Test => 0 Memory Num.



Abnormal, Normal and Int time are should need to set-up.
Min = 0.01s

Running a Sequence.

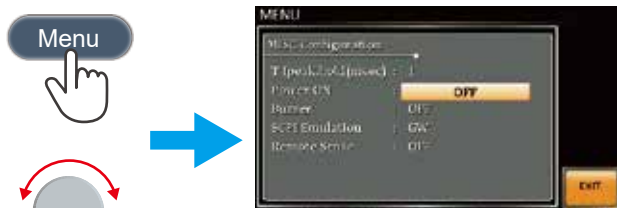


GW INSTEK

Power ON Output

The Power ON Output setting allows you to have the output turn on automatically after startup.

The settings that are loaded are the last settings that were present in the standard mode before the unit was turned off last.



ON Set Output ON.

OFF Set Output OFF.

SEQ Execute the sequence that was loaded before the unit was last turned off.

SIM Execute the simulation that was loaded before the unit was last turned off.

PROG Execute the program that was loaded before the unit was last turned off



Press Exit[F4] to exit from the MISC Configuration settings.