12. External input and output (30-54 models)

With using external input and output functions, this product can be operated inter-connectedly with an external device.

Connector Input		Output	Remarks
P580	Low noise mode		
PA580	Peak cut mode		See external input/output settings
P590		Error status	for details.
PA590		Compressor status	

12-1. External input

With using external input function, on/off status of "Low noise mode" and "Peak cut mode" can be specified by the external signal.

Low noise mode

In following condition, the operating noise of the outdoor unit reduces comparing from the one in normal operating condition:

The air conditioner is set to the "Low noise mode" when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

NOTE: Product performance may drop depending on some conditions such as the outdoor temperature.

Circuit diagram example



Optional part

Part name	Model name	Exterior	
External connect kit	UTY-XWZXZ3	External input wire	

Peak cut mode

By performing following on-site work, operation that suppresses the current value can be enabled: The air conditioner is set to the "Peak cut mode" when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

Circuit diagram example

rdoor unit Yg24-54KBTB



Optional part

Part name	Model name	Exterior	
External connect kit	UTY-XWZXZ3	External input wire	

12-2. External output

With using external output function, some status signals are transmitted to the control PCB, and the related LED lamp indicates the status of this product.

Error status output

Signal on air conditioner error status is generated when a malfunction occurs.

Circuit diagram example

rdoor unit Yg24-54KBTB



Optional part

Part name	Model name	Exterior
External connect kit	UTY-XWZXZ3	External output wire

Compressor status output

Signal on compressor operation status is generated when the compressor is running.

Circuit diagram example



Optional part

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Part name	Model name	Exterior
External connect kit	UTY-XWZXZ3	External output wire

13. Function settings (30-54 models)

Perform appropriate function setting locally according to the installation environment.

NOTE: Incorrect settings can cause a product malfunction.

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- Before setting up the switch buttons, discharge the static electricity from your body.
- Never touch the terminals or the patterns on the parts that are mounted on the PCB.

13-1. Control PCB and switch buttons location

Control PCB of the outdoor unit is located as shown in the following figure.



Switch buttons and the functions



Switch buttons

LED lamp			Function or operation method
(1)	POWER/MODE	Green	Lights on while power on. Local setting in outdoor unit or error code is displayed with blink.
(2)	ERROR	Red	Blinks during error operation.
(3)	PUMP DOWN (L1)	Orange	Lights on during pump down operation.
(4)	LOW NOISE MODE (L2 and L3)	Orange	Lights on during "Low noise mode" when local setting is activated. (Lighting pattern of L2 and L3 indicates low noise level.)
(5)	PEAK CUT MODE (L4, L5, and L6)	Orange	Lights on during "Peak cut mode" when local setting is activated. (Lighting pattern of L4, L5, and L6 indicates peak cut level.)

Switch button		Function or operation method
S134	MODE	Switches between "Local setting" and "Error code display".
S133	SELECT	Switches between the individual "Local settings" and the "Error code displays".
S132	ENTER	Switches between the individual "Local settings" and the "Error code displays".
S131	EXIT	Returns to "Operation status display".
S130	PUMP DOWN	Starts the pump down operation.

13-2. Local setting procedure

NOTE: Before performing the function setting, be sure to stop the operation of the air conditioner.

Low noise mode

- 1. Press the MODE switch button (S134) for 3 seconds or more to switch to "Local setting mode".
- 2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

POWER	FRROR	PUMP DOWN	LOW	NOISE	F	PEAK CUT	Г
MODE	LINION	(L1)	(L2)	(L3)	(L4)	(L5)	(L6)
Blinks (9 times)	0	0	0	0	0	0	0

Sign " 🔿 ": Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.



4. Press the ENTER switch button (S132).



Sign "
• ": Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

	PEAK CUT				
	(L4) (L5) (L6)				
MODE 1: Low	0	0	Blink		
MODE 2: Lower	O Blink O				

6. Press the ENTER switch button (S132) and fix it.

	PEAK CUT				
	(L4) (L5) (L6)				
MODE 1: Low	0	0			
MODE 2: Lower	0		0		

7. To return to "Operating status display (Normal operation)", press the EXIT switch button (S131).

In case of missing how many times you pressed the SELECT and ENTER switch buttons:

- 1. To return to "Operation status display (Normal operation)", press the EXIT switch button once.
- 2. Restart from the beginning of setting procedure.
- **NOTE:** In case of missing how many times you pressed the SELECT and ENTER switch buttons, you must redo the setting procedure. Return to "Operation status display (Normal operation)" by pressing the EXIT switch button once, and restart from the beginning of the setting procedure.

or unit ⊦54kbtb

Peak cut mode

- 1. Press the MODE switch button (S134) for 3 seconds or more to switch to "Local setting mode".
- 2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

POWER				LOWI	NOISE	F	PEAK CU	Г
MODE	LINION	(L1)	(L2)	(L3)	(L4)	(L5)	(L6)	
Blinks (9 times)	0	0	0	0	0	0	0	

Sign " () ": Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.



4. Press the ENTER switch button (S132).



Sign "
• ": Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

	PEAK CUT			
	(L4) (L5) (L6)			
100 % of rated input ratio	0	0	Blink	
75 % of rated input ratio	0	Blink	0	
50 % of rated input ratio	0	Blink	Blink	
0 % of rated input ratio	Blink	0	0	

6. Press the ENTER switch button (S132) and fix it.

	PEAK CUT		
	(L4)	(L5)	(L6)
100 % of rated input ratio	0	0	
75 % of rated input ratio	0		0
50 % of rated input ratio	0		
0 % of rated input ratio		0	0

- 7. To return to "Operating status display (Normal operation)", press the EXIT switch button (S131).
- **NOTE:** When pressed number is lost during setting, you must redo the setting procedure. Return to "Operation status display (Normal operation)" by pressing the EXIT switch button once, and restart from the beginning of the setting procedure.