

3-8. Power supply unit [PAC-SC51KUA]

PAC-SC51KUA supplies DC power of 22-30V and 24V at TB2 and TB3 respectively; the former is for centralized transmission use and the latter is for AG-150A operation and LAN function use.

- When using PAC-SC51KUA as the power supplier for system controller, the capacity for system controller is considered as follows.

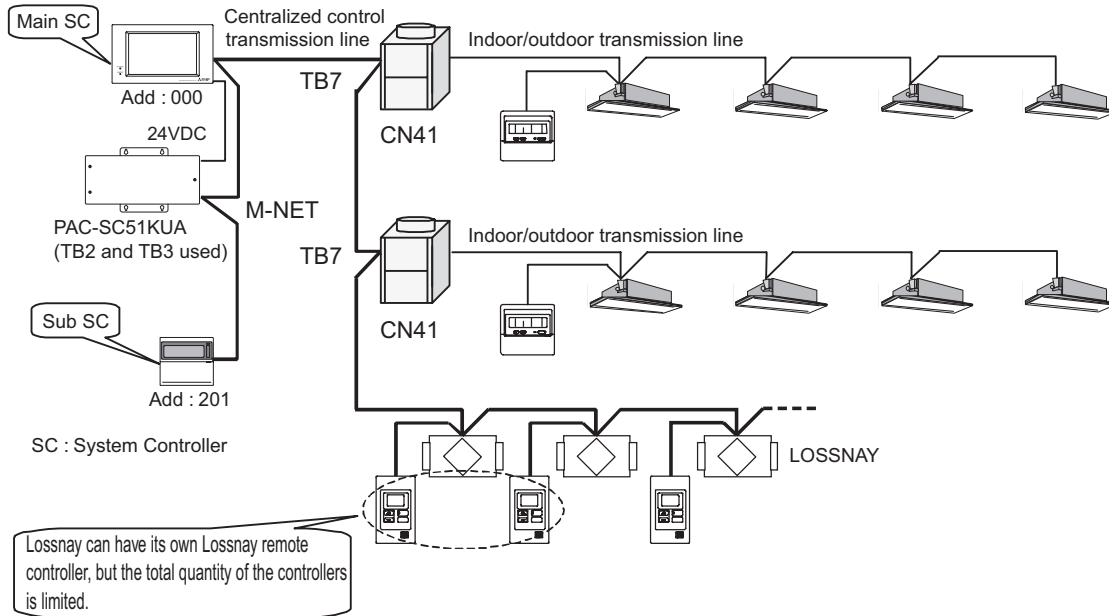


Fig. 1 Equivalent power consumption of controllers

In this case, pay attention to leave the power supply switch connector on CN41 of the Outdoor unit as the factory setting before shipment.

Taking the power consumption of the control board of Indoor unit as 1, the power consumption of various controllers is rated at Table 1.

Table 1 Equivalent power consumption of controllers

Centralized controller			Other system controllers		Remote controllers
AG-150A	G-50A	GB-50A	ON/OFF remote controller (PAC-YT40ANRA)	System remote controller (PAC-44SRA) Schedule timer (PAC-YT34STA)	ME remote controller (PAR-F27MEA) LOSSNAY remote controller (PZ-52SF)
0.5	Not used *1	3	1	0.5	0.25

*1: G-50A cannot be connected to PAC-SC51KUA. Use PAC-SC50KUA to connect G-50A.

PAC-SC51KUA is capable to supply eqivalent power up to 5, therefore the maximum connectable number of system controller is as follows.

Table 2 Max. connectable quianity of controller when using PAC-SC51KUA

Centralized controller*2			Other system controllers		Remote controllers
AG-150A	G-50A	GB-50A	ON/OFF remote controller (PAC-YT40ANRA)	System remote controller (PAC-44SRA) Schedule timer (PAC-YT34STA)	ME remote controller (PAR-F27MEA) LOSSNAY remote controller (PZ-52SF)
1unit	Not used *1	1unit	5 units	10 units	20 units

*1: G-50A cannot be connected to PAC-SC51KUA. Use PAC-SC50KUA to connect G-50A.

*2: According to the system restrictions, PAC-SC51KUA can be connected to only one centralized controller.

As the air conditioner control system may combine all kinds of system controllers, the total power consumption of system controllers need to count with Table 2.

For example, the controller system contain 1 AG-150A, 2 ON/OFF remote controllers (PAC-YT40ANRA), 1 schedule timer (PAC-TY34STA), 6 Lossnay remote controllers connected at centralized control communication line.

Then the total power consumption is

$$1 \times 0.5 + 2 \times 1 + 1 \times 0.5 + 6 \times 0.25 = 4.5 < 5.$$

One PAC-SC51KUA is therefore enough. The total power consumption should not exceed 5.

2. When supply power to 1 AG-150A, the PAC-SC51KUA can supply power to other system controllers as follows.

Table3 Connectable number of system controller when 1 AG-150A is used.

V : Connectable

When connected to one AG-150A		Total number of ON/OFF remote controller(AN)					
		0	1	2	3	4	5
Total number of System remote controller(SR) Schedule timer(ST)	0	V	V	V	V	V	
	1	V	V	V	V	V	
	2	V	V	V	V		
	3	V	V	V	V		
	4	V	V	V			
	5	V	V	V			
	6	V	V				
	7	V	V				
	8	V					
	9	V					
	10						



CAUTION

- When applying Charge and/or Peak-cut function on AG-150A, Power Supply Unit (PAC-SC51KUA) is recommended to use. AG-150A is possible to receive power from one of the Outdoor units, but there is a risk that the failure of power supply from the Outdoor unit will cause AG-150A's functiondown on the whole system.

3. When supply power to 1 GB-50A, the PAC-SC51KUA can supply power to other system controllers as follows.

Table4 Connectable number of system controller when 1 GB-50A is used.

V : Connectable

When connected to one GB-50A		Total number of ON/OFF remote controller(AN)					
		0	1	2	3	4	5
Total number of System remote controller(SR) Schedule timer(ST)	0	V	V	V			
	1	V	V				
	2	V	V				
	3	V					
	4	V					
	5						
	6						
	7						
	8						
	9						
	10						



CAUTION

- When applying Charge and/or Peak-cut function on GB-50A, Power Supply Unit (PAC-SC51KUA) is recommended to use. GB-50A is possible to receive power from one of the Outdoor units, but there is a risk that the failure of power supply from the Outdoor unit will cause AG-150A's functiondown on the whole system.