

3-14. Transmission booster PAC-SF46EPA

The Outdoor unit supplies transmission power DC 30V for the indoor-outdoor transmission line at its connector TB3 and TB7. The power is consumed by the Indoor unit, OA processing unit, ME remote controller, Timers and System controllers. When the total quantity of Indoor units, OA process units and ME remote controller, Timers and System controllers is over 40, or when transmission power supply is not enough, the transmission booster PAC-SF46EPA should be designed into the air-conditioner system to ensure the system communication. Indoor unit sized P200, 250 is counted as 2 units.

3-14-1. Designing PAC-SF46EPA into an air-conditioner system.

Taking the power consumption of Indoor unit sized P20-P140 as 1, the equivalent power consumption or supply of others are listed at Table 3-14-1 and Table 3-14-2.

Table 3-14-1 The equivalent power consumption by Indoor units, LOSSNAY, OA processing units, controllers

Indoor, OA unit	Indoor unit	BC controller	MA RC. LOSSNAY	ME Remote Contr.	Timers, System Contr.		ON/OFF Contr.
Sized P20-P140 GUF-50,100	Sized P200,P250	CMB-P-V	PAR-21MAA PAC-YT51CRB PAR-FA32MA LGH-RX-E	PAR-F27MEA PAC-SE51CRA PZ-52SF	PAC-SC30GRA PAC-SF44SRA PAC-YT34STA G-50A	GB-50A	PAC-YT40ANRA
1	7	2	0	1/4	1/2	3	1

*RC : Remote Controller

Table 3-14-2 The equivalent power supply of Trans. Booster, Power supply unit, Connector TB3, TB7 of Outdoor unit.

Transmission Booster	Power supply unit	Outdoor unit	Outdoor unit
PAC-SF46EPA	PAC-SC50KUA	Connector TB3 and TB7 total *	Connector TB7 only
25	6	32	6

*If PAC-SC50KUA is used to supply power at TB7 side, no power supply need from Outdoor unit at TB7, Connector TB3 itself will therefore have 32.

Transmission booster PAC-SF46EPA has equivalent transmission power 25.

With the equivalent power consumption values in Table 3-14-1 and Table 3-14-2, PAC-SF46EPA can be designed into the air-conditioner system to ensure proper system communication according to 3-14-1-A, B, C.

3-14-1-A) Firstly, count from TB3 at TB3 side the total quantity of Indoor units, OA process units and ME remote controller, Timers and System controllers. If the total quantity reaches 40, a PAC-SF46EPA should be set. In this case, Indoor unit sized P200, 250 is counted as 2 Indoor units, but MA remote controller(s), LOSSNAY is NOT counted.

3-14-1-B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total power consumption reaches 32, a PAC-SF46EPA should be set. Yet, if a PAC-SC50KUA is used to supply power at TB7 side, count from TB3 side only.

3-14-1-C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total power consumption reaches 6, a PAC-SF46EPA should be set.

External dimension

