

Frequently Asked Questions

1. What is the purpose of using AMFi panels?

AMFi panels are auto mains failure panels that perform the following functions:

- a. Automatically switch on your genset when the mains supply fails
- b. Transfer load from the mains to the genset
- c. Transfer load back to the mains when the supply restores
- d. Switch off the genset

2. Do AMFi panels have short circuit protection?

AMFi panels do not have built in short circuit protection. This protection is built into the power panel of your KOEL green genset. For the mains supply, you need to connect a suitable MCB/MCCB at the incomer for short circuit protection.

3. Can I use aluminium cables along with AMFi panels?

The terminal capacity of AMFi panels is suitable for aluminium termination. The recommended cable sizes are as follows:

kVA Rating	Size of copper cable (Sq mm)	Size of Aluminium cable (Sq mm)
10kVA 1φ	10	10
15kVA 1φ	16	25
30kVA 1φ	50	50
15kVA 3φ	4	6
25kVA 3φ	6	10
30kVA 3φ	10	16
45kVA 3φ	35	50
62.5kVA 3φ	35	50

4. Can I use AMFi panels for single phase genset and three phase mains?

Yes AMFi Panels can be used for single phase genset and three phase mains. The panel needs to be selected as per the table below:

Single phase genset rating	AMFi panel to be selected
5kVA	15kVA 3φ
7.5kVA	25kVA 3φ
10kVA	30kVA 3φ
15kVA	45kVA 3φ
20kVA	62.5kVA 3φ

You need to additionally use a shorting link that has to be connected to the genset supply terminal of the AMFi panel

5. Is it advisable to mount an AMF panel inside the genset canopy?

It is not advisable to mount an AMF panel inside the genset canopy due to the following reasons:

- a. The genset environment has vibrations that can reduce the life of the AMF panel
- b. The cable routing becomes more complex as the mains supply needs to be taken to the genset and the outgoing supply needs to be taken from the genset
- c. When the AMF panel needs to be switched off, accessing the panel is difficult when it is mounted inside the genset canopy.

AMFi panels are not suitable for mounting inside the genset canopy.

6. Are AMFi panels provided with metering?

AMFi panels are not provided with any metering

7. I want to use one size higher contactor with the mains supply, is it possible to do so with an AMFi panel?

For such applications, it is advisable to choose the AMF panel based on the contactor rating and not the kVA rating of the genset. The contactor ratings are as follows:

kVA Rating	Contactor rating in A
10kVA 1 ϕ	25A
15kVA 1 ϕ	40A
30kVA 1 ϕ	80A
15kVA 3 ϕ	25A
25kVA 3 ϕ	40A
30kVA 3 ϕ	50A
45kVA 3 ϕ	80A
62.5kVA 3 ϕ	100A

8. I don't want the AMF system to operate when I am not around, is there some way I can disable it?

The automatic operation of the AMFi panel can be disabled by setting the mode selection switch to the manual mode.

9. How do I install AMFi Panels?

An installation manual is provided with every AMFi panel. Please follow the instructions mentioned in the manual to install the panel

10. Are AMFi panels compatible with other make gensets?

While the AMFi panels are designed for use with KOEL green gensets, they can be used with any make genset provided the genset controller has the following features:

1. Auto start input
 2. Genset contactor control output
 3. Mains contactor control output
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