

CUSTOMER FAQ · SINGAPORE

RCCB TRIPS IN THE RAIN

It is not a fault. Singapore mandates the strictest residual-current threshold in the world, and rain makes solar leak. Here is why.

§ A · SENSITIVITY

TRIP THRESHOLD SCALE

SG VS THE WORLD

RCCB SENSITIVITY · TRIP THRESHOLD ON A 0-150 mA SCALE

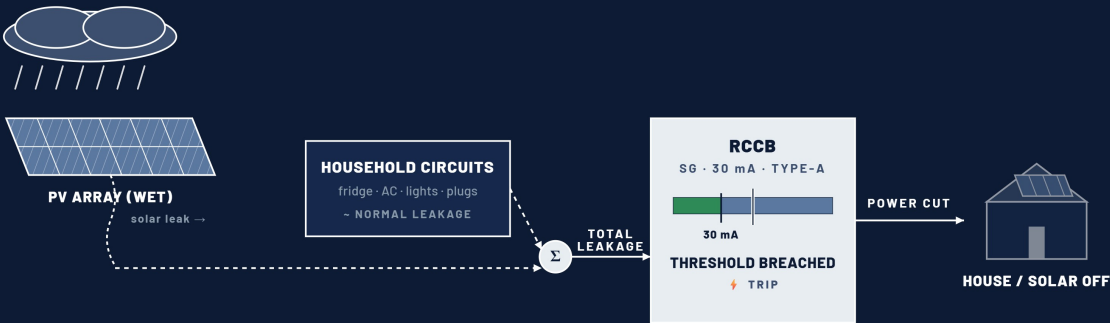


§ B · MECHANISM

WEATHER-RELATED, NOT A FAULT

WHY HEAVY RAIN TRIPS THE BREAKER

HOW RAIN PUSHES TOTAL LEAKAGE PAST THE 30 mA THRESHOLD



IF YOUR RCCB TRIPS

- 01 **FLIP IT BACK TO ON**
If it tripped in rain, solar resumes once the panels have enough sunlight.
- 02 **CHECK THE WEATHER**
Active thunderstorm at trip time? Almost always rain-related.
- 03 **DRY-WEATHER TRIP?**
Or won't stay on. Contact FOMO Support for a site inspection.

FOMO CAN MITIGATE BY

- A **INVERTER LEAKAGE SUPPRESSION**
The inverter catches leakage internally before it reaches the RCCB, keeping the system generating in wet weather. (Only some models of inverters)
- B **RCCB UPGRADE**
With full homeowner consent and understanding of the regulatory position.

§ C · QUICK ANSWERS

FOLLOW-UP TOPICS

COMMON QUESTIONS

- 01 **Is frequent tripping normal in Singapore?**
Yes. SG is one of only two countries mandating **30 mA** for residential. Trips during wet weather are expected, not unusual.
- 02 **Could it be damaged wiring or moisture ingress?**
Unlikely if trips always coincide with rain. FOMO cross-checks weather against each trip. Dry-weather trips → site inspection.
- 03 **Is a 100 mA RCCB dangerous?**
No. 100 mA is still a very small current, even accidental contact only causes a minor sensation. SG's 30 mA rule is precautionary.
- 04 **Solar RCCB vs household RCCB, which trips?**
If solar has its own RCCB, only solar drops; the house stays powered. Shared → whole house cuts. **FOMO installs a separate solar RCCB where possible.**
- 05 **Is inverter leakage suppression safe?**
Yes. The inverter physically disables its contactors, a real circuit gap, no fire risk. Insulation is monitored continuously; **> 1 MΩ** is healthy.
- 06 **'Grid Failure' alarm, related?**
Usually the same event. The inverter logs 'Grid Failure' when it loses grid, which is exactly what happens when the RCCB opens.