# Enphase Q Relay (multiphase)

In Enphase IQ installations, the multiphase Q Relay acts as a grid monitoring and disconnection device and includes a built-in phase coupler to distribute power line communication signals across phases. An external phase coupler is not needed when the Q Relay is installed. The Q Relay physically isolates the IQ Series Microinverters from the grid when abnormalities are sensed or as required by grid regulations, and it automatically reconnects when valid grid conditions resume.

The 4-pole Q Relay isolates all phase and neutral lines and works together with the Enphase Envoy-S gateway.




### Easy to Install

- Lightweight and simple
- DIN rail mount for quick installation

### Reliable

- Dependable control
- Automatically resets when normal voltage resumes

### Smart

- Can be configured to monitor 1, 2, or 3 phases
- Remote upgrade capability
- 25A rating allows more microinverters per AC circuit
- Easy to read status LEDs
- Built-in power line communication phase coupler

# Enphase Q Relay

| SPECIFICATIONS<br>Q-RELAY-3P-INT | Multiphase network system relay controller (50 Hz) with support for DC current detection |
|---|---|
| Over voltage category (EN 61010-1) | III |
| CAT III | GRID terminal is rated for measurement category III. |
| Pollution degree (EN 61010-1) | 2 |
| Operating AC voltage range for power supply | 85 to 265 VAC |
| Nominal input voltage (Vnom) | 230 Vrms |
| Nominal input frequency | 50 Hz |
| Voltage and frequency acquisition time on valid input during normal operation | 100 ms (5 line cycles @ 50Hz) |
| Number of phases | Single-, 2- or 3-phase modes |
| Number of Q Relays per system | Limit of 20 active Q Relay devices per system |
| Output | Four pole normally open relay (L1, L2, L3, and N) |
| Output rating (typical) | 230 Vrms, 25A |
| Built-in phase coupler | Suitable for 2- or 3-phase systems with line-to-line voltages up to 440 VAC |
| Power consumption | 18 VA |
| LEDs | Four red/green LEDs: three for under/over voltage trip, one for under/over frequency and DC current |
| Mounting | 35 mm DIN rail (standard) |
| Width | 107 mm |
| Surge - L1 N output | Combination (1kV 2Ω) |
| Ambient temperature range | -40 °C to 50 °C |
| IP rating | IP 20 (Must be used in a protected environment) |
| Relative humidity | 0 to 95 non-condensing |
| Compliance | IEC 61010, EN 61010-1, AS/NZS 61010.1 |
| Conducted and radiated EMI | IEC 61326, BS EN 50065-1 & 2-2, BS EN 61326-1&2, BS EN 61000-3-11&12 |
| Warranty | 5-year limited |

To learn more about Enphase offerings, visit enphase.com/au

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