

## Enphase Q Relay (multiphase)

In Enphase IQ installations, the multiphase Q Relay works with acts as a grid monitoring and disconnection device. 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

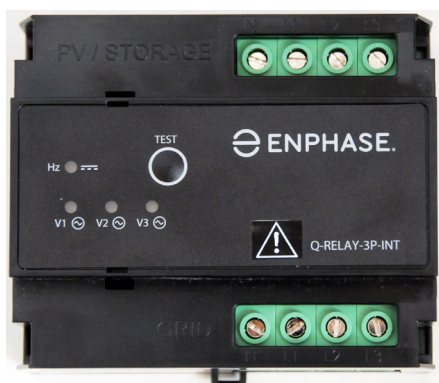
- Lightweight and simple
- DIN rail mount for quick installation

### Reliable

- Dependable load control
- Automatically resets when normal voltage resumes

### Smart

- Can be configured to monitor 1, 2, or 3 phases
- Remote upgrade capability
- Easy to read status LEDs



## Enphase Q Relay

| <b>SPECIFICATIONS</b>   | Multiphase network system relay controller (50 Hz) with support for DC current detection            |
|---|---|
| <b>Q-RELAY-3P-INT</b>   |   |
| 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 / 240 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 voltage inputs to monitor   | Up to 3   |
| Number of IQ Microinverters supported per phase                               | Up to 19 Enphase IQ 7 Microinverters or 16 Enphase IQ 7+ Microinverters                             |
| 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 power rating   | 6 kVA per phase   |
| Output rating (typical)   | 230 / 240 Vrms, 25A   |
| 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 2 $\Omega$ )   |
| Operating 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   |
| 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 years   |

To learn more about Enphase offerings, visit [enphase.com](http://enphase.com)