

# Technical Note – P-Q Diagram of SolarEdge TerraMax™ Inverter

## Revision History

- Version 1.0, October 2024: Initial release

## Overview

Voltage-dependent P-Q control is a smart feature of SolarEdge TerraMax Inverter that automatically adjusts the reactive power (Q) output based on the grid voltage at the connection point and the active power (P) based on voltage.

The following diagram describes the voltage-dependent P-Q diagram of the SolarEdge TerraMax Inverter where:

- $P_n$  is the inverter's rated power
- $P$  is the inverter's active power
- $Q$  is the inverter's reactive power

Note that the SolarEdge TerraMax Inverter can operate at any point underneath the following diagrams.

