CCI solution

Item no. 592.941

Maximize the potential of bluelog Neo with the CCI cabinet from meteocontrol.

Background

The Controllore Centrale di Impianto (CCI) cabinet, combined with meteocontrol's bluelog Neo, delivers a complete and secure solution that complies with the Italian grid code. Designed for medium voltage systems ranging from 100 kW to 500 kW, from 500 kW to 1 MW, and above 1 MW, the system guarantees full compliance with PF1, PF2, and PF3 requirements.

This makes it the ideal solution for plant control in accordance with Annex A.72, CEI 0-16, and ARERA Resolution 385/2025.

Our solution is distributed in Italy by meteocontrol Italia SRL.

Description

PF 1: Monitoring

Mandatory services: acquisition and communication of the following data to the DSO:

- Measurement of P, Q, and V at the grid connection point (GCP).
- Measurement of aggregate P and Q by generation source.
- Measurement of P from each generation/storage unit.
- Status of the main circuit breaker (dispositivo generale DG) and generation unit (dispositivo di unità DDG).
- Status signals relating to regulation and control.

PF 2: Control

Plant regulation and control services at the grid connection point in accordance with the procedures defined by current legislation:

- Voltage regulation.
- Active power limitation.

PF 3: Management

Implementation of optional functional services:

- Start-up, restart, and reconnection of the plant.
- Optimized plant management.
- Participation in the Dispatching Services Market (Mercato dei Servizi di Dispacciamento MSD).

Technical data

Dimensions (H x W x D)	700 x 500 x 250 mm

Housing	Steel
Supply voltage	230 V AC / 16 A
IP rating	IP 55
Max. operating temperature	+40 °C
Weight	26 kg
Installation type	Wall installation

Cabinet equipment

Internal power supply	24 V DC
Service socket	Yes
UPS with battery module	Yes
Interface relays	6x
Digital inputs (DI)	16x
Terminals for CT circuits	4x
Terminals for VT circuits	4x
V-I measurement accuracy (IEC 61557-12)	0.2 %
Processing and control unit	Full support for PF1, PF2 and PF3 functionalities
GPS antenna	Yes
Time synchronization protocol	(S)NTP

External equipment

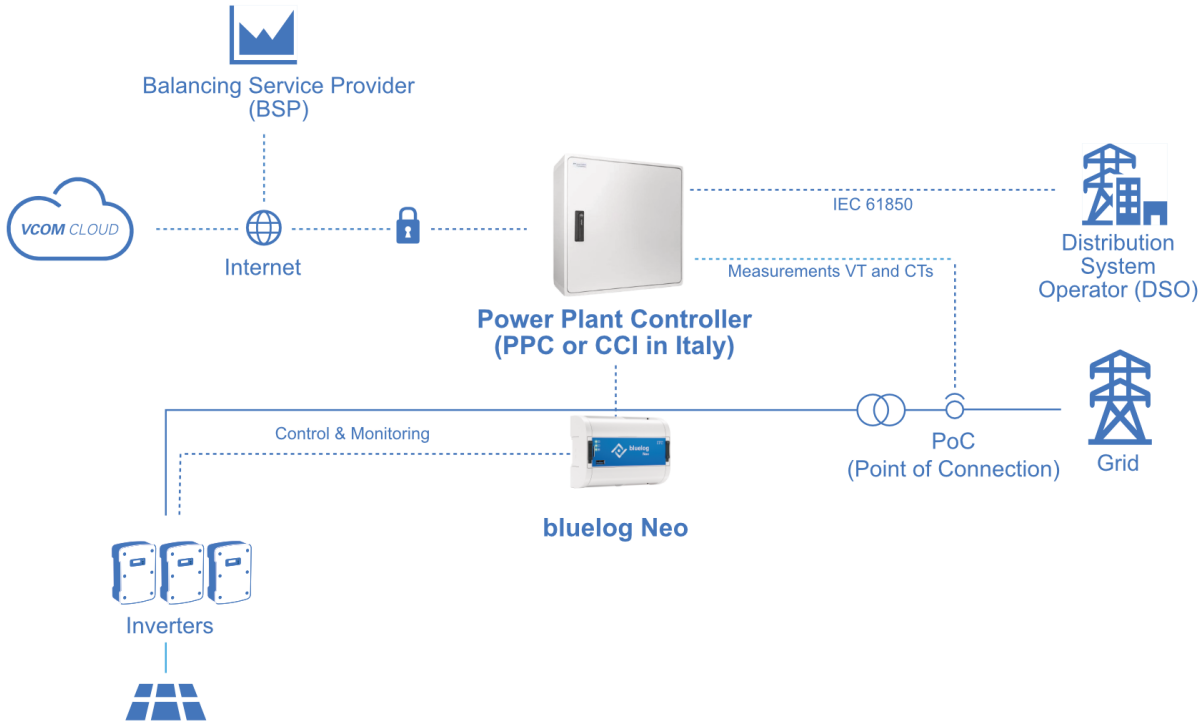
Data logger: bluelog Neo	1x

Communication interface

Internet interface	• 2x Ethernet copper • 1x Ethernet copper/fiber optic
Communication protocol with DSO	• IEC 61850 secure (compliant with IEC 62351)
Communication protocols with plant	• MODBUS TCP • PROFINET • SIEMENS S7 • OPC UA

Optional communication protocols	• IEC 60870-5-104 client/server • IEC 62056-21

Other functions

- Firewall
- VPN
- Integrated web interface

Functional principle