

# iGridControl

iGridControl is used to monitor and control heterogeneous power generation plants. This makes it possible to control different generation plants (CHP, wind and PV plants) both individually and together at the grid connection point. In addition to power reduction and reactive power control, all specifications for connection to the telecontrol technology of the transmission system operator or the direct marketer are implemented. The controller of the iGridControl has been awarded a

component certificate according to VDE-AR-N 4110:2018-11.

FGH Zertifizierungsstelle Akkreditiert nach DIN EN ISO/IEC 17065 Nr. D-ZE-20089-01-00		 <b>Nr.: FGH-K-2022-001</b> Exemplar-Nr. 1
<b>Komponentenzertifikat</b> Elektrische Eigenschaften von EZA-Reglern		
<b>Hersteller</b>	iPLON Solutions GmbH Im Ökopark 7, D-74549 Wolpertshausen	
<b>Komponenten-Typ</b>	Erzeugungsanlagen-Regler	<b>iGridControl</b>
<b>Technische Daten</b>	Funktion: Regel- und Steuereinheit: Softwareversion: Für weitere technische Daten siehe Abschnitt B, Seite 3	Wirk- und Blindleistungsregelung am NAP iPLON iGate ≥ 1.3.0
<b>VDE-Anwendungsregel</b>	VDE-AR-N 4110:2018-11	
<b>Zertifizierungsprogramm</b>	FGW Technische Richtlinie Nr. 8, Rev. 9 Z 416, Rev. 10	
<b>Mitgeltende Richtlinien</b>	FGW Technische Richtlinie Nr. 3, Rev. 25 FGW Technische Richtlinie Nr. 4, Rev. 9	

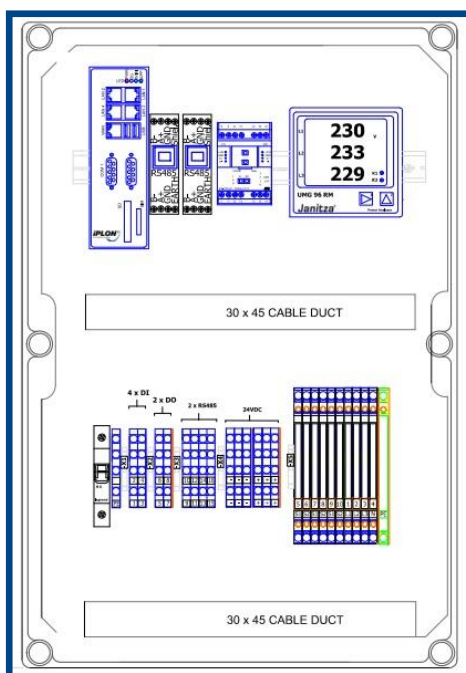
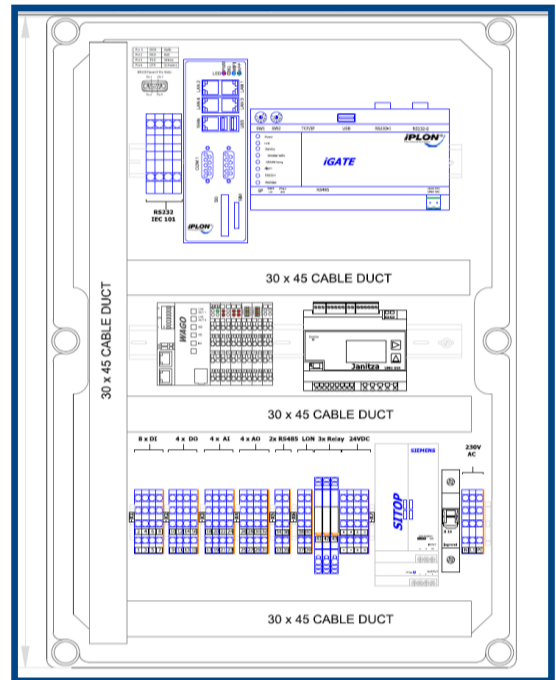


## Overview

- ✓ Implementation of the specifications of the transmission system operator and the direct marketer with corresponding prioritization
- ✓ Control via a decentralized schedule
- ✓ Optionales energy management
  - E-Mobility
  - Load management
  - Controlling power range
  - Energy storage
- ✓ Grid stability
  - Control of RONT
  - Power quality measurement
  - Reactive power control (Q(U), cosphi, etc.)
- ✓ Possible integration into the operational management
- ✓ Integration of all common PV inverters and CHP manufacturers
- ✓ Use of standardized interfaces
- ✓ Smart home / industrial applications
- ✓ Implementation of customer-specific requirements through a decentralized module structure
- ✓ E-Mail and SMS notification
- ✓ Android / IOS App
- ✓ Flexible adjustment to future requirements

### Interfaces

- ✓ Interface IEC60870-5-104 to the control room of the transmission system operator and / or direct marketer
- ✓ IEC60870-5-101 interface to the protocol converter of the TSO
- ✓ Interface IEC60870-5-103 or Modbus RTU / TCP to the protection device
- ✓ Voltage current measurement on the network expansion plan via potential transformers
- ✓ Analog and digital IOs for the acquisition of additional data points
- ✓ Control of the circuit breakers of the transformer station or the generation plants for safe grid disconnection
- ✓ Connection of meteorological sensors via Modbus RTU or analog inputs
- ✓ Working temperature - 20 °C to + 55 °C
- ✓ Integrated UPS optional



### Notes

- ✓ Customer-specific project planning and on-time commissioning by qualified employees
- ✓ Clarification of any technical issues with the grid operator, direct marketer and transformer station manufacturer as well as the manufacturer of the control systems for the generation plants

Subject to technical changes