

# InteliDrive Lite DC

## DC GENERATOR CONTROLLER



### Functions

- ▶ Automatic Start and Stop according to the accumulator voltage and charging current
- ▶ Charging cycle for battery (Bulk, Absorption cycle)
- ▶ Charging current/voltage regulated by speed (variable speed engines, dual speed engines) or excitation (single speed engines)
- ▶ Voltage compensation according to battery temperature
- ▶ Charging time limitation and other protection
- ▶ Service cycle allows the maintenance people to trigger the charging manually
- ▶ Remote communication via GPRS, AirGate or Ethernet
- ▶ ComAp SCADA compatible (several equipment creating the network)
- ▶ History log (remote device with the accumulator always generates troubles which the maintenance try to unriddle)
- ▶ Controller Buttons replace extra buttons (Start, Stop etc.)

### Description

The InteliDrive Lite DC controller is used to control DC generators and external DC power sources (e.g. Solar, Wind or Fuel) which recharge batteries in off-grid electric applications. The advanced features of the controller ensure optimization of battery life and reduced fuel consumption, which result in lower OPEX.

The controller has an LCD screen for system information and fault indications, and control buttons to switch between automatic and manual operation.

Automatic mode allows system start according to the battery voltage level. If it reaches a predetermined level, the controller automatically turns on or off the power source to ensure continuity of power.

Manual operation allows the engine to be started using buttons on the fascia of the controller, or by external buttons on a control panel.

Parameters for engine control are adjustable from the front of the controller, (which can be password protected) or by using the complimentary LiteEdit computer software.

### Benefits

- ▶ Integrated solution for two sources of power (DC Generator and Solar energy or Wind Energy etc.)
- ▶ Support for PM (Permanent Magnets) generators
- ▶ Possibility of monitoring or control via internet
- ▶ Warnings and messages from controller to your mobile phone by SMS
- ▶ Perfect price/performance ratio



ComAp is a member of AMPS (The Association of Manufacturers of Power generating Systems).



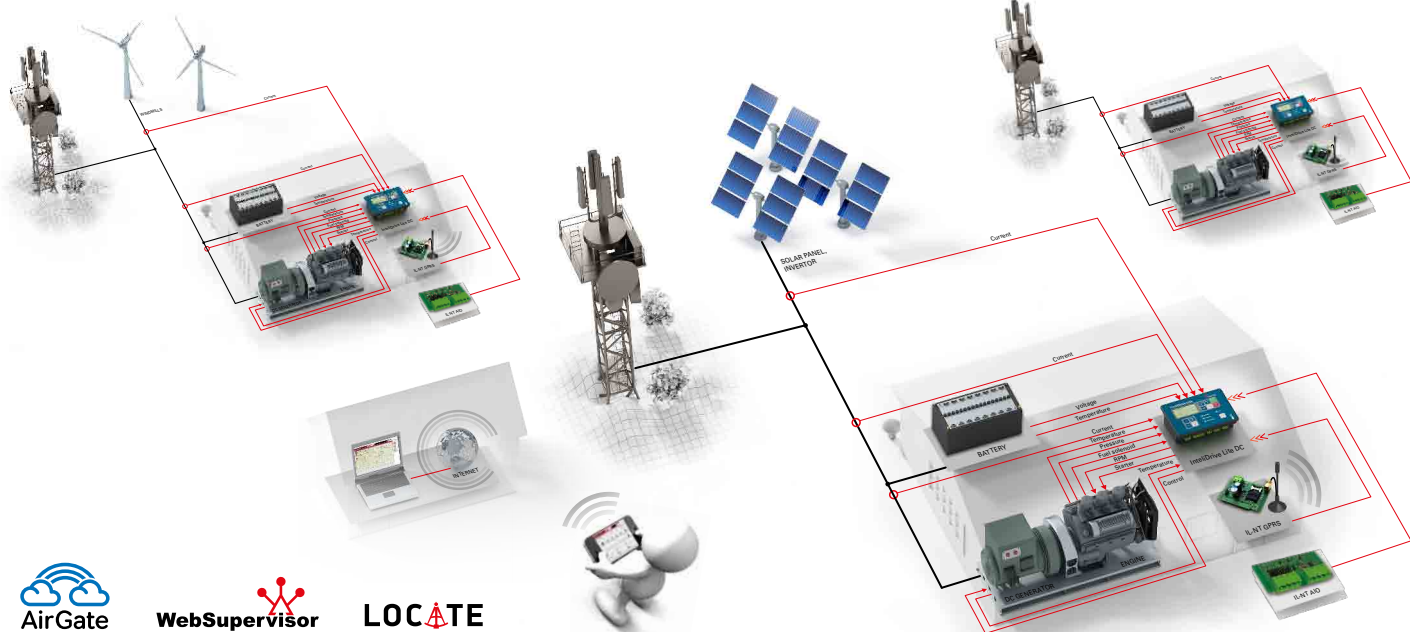
ComAp products meet the highest standards, with every stage of production undertaken in accordance with the ISO certification obtained in 1998.

## Features

- ▶ Support of engines equipped with Electronic Control Unit (ECU) – J1939 or Cummins Modbus interface
- ▶ Selectable protections alarm/shutdown
- ▶ Setpoints adjustable via controller buttons or PC
- ▶ 3 levels of password protection
- ▶ USB, RS485 or RS232, GSM/GPRS, Modbus communication
- ▶ Real time clock and event history log
- ▶ Engine speed control by 3 predefined binary inputs, Speed Up/Down binary inputs or 1 analog input
- ▶ Analog oil pressure, water temperature, fuel level, battery voltage, engine speed (pickup)
- ▶ Push buttons for simple control, lamp test
- ▶ Graphic back-lit LCD display 128 × 64 pixels
- ▶ 7 configurable binary inputs and outputs
- ▶ 9 configurable analog inputs
  - 3 resistive inputs
  - 2 inputs 0–60 V
  - 4 inputs 0–10 V
- ▶ VDO type analog gauges outputs – 8 configurable channels
- ▶ 4 LEDs indicators
- ▶ Front panel sealed to IP65
- ▶ Power supply 8–36 VDC
- ▶ Operating temperature
  - -20 °C to +70 °C regular unit
  - -40 °C to +70 °C low temperature unit
- ▶ The controller meets several standards (EN, UL)

## Typical application

### DC Hybrid system for Telecommunications



MANUFACTURER:

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## Communication modules and PC tools

- ▶ **IB-Lite** – Internet/ethernet plug-in module including WebServer
- ▶ **IL-NT RS232** – RS232 extension board
- ▶ **IL-NT RS232-485** – Dual port extension board
- ▶ **IL-NT S-USB** – Service USB module
- ▶ **IL-NT GPRS** – Cellular modem/wireless internet module
- ▶ **LiteEdit** – PC configuration and monitoring tool
- ▶ **WinScope** – Special graphical controller's monitoring software (PC oscilloscope)
- ▶ **WebSupervisor** – Cloud-based system for monitoring and controlling of ComAp controllers

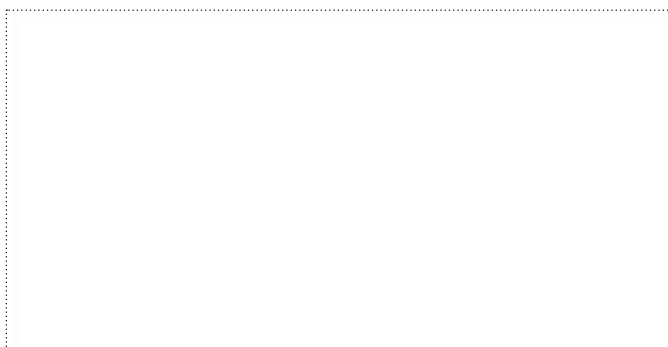
## Extension modules and remote display

- ▶ **IL-NT AIO** – Analog input/output module (4xAI and 1xAO)
- ▶ **IL-NT AOUT8** – Analog outputs for PWM gauges module (8xAO)
- ▶ **IL-NT BIO8** – Binary input/output module (8xBI or BO)
- ▶ **IL-NT IO1** – Binary input/analog output module (4xAO and 4xBI)
- ▶ **IGL-RA15** – Remote annunciator (15 LEDs)
- ▶ **IL-NT RD (SW)** – Remote display software for the master controller

## Order code

Product	Order code
InteliDrive Lite DC	ID-FLX-DC

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