

Ingeteam's hybrid inverter is compatible with the BYD Premium high voltage batteries

XX of XXXX, 2021. Ingeteam and BYD have tested and certified at their respective R&D laboratories, the compatibility of the BYD Battery-Box Premium HVS and HVM high voltage batteries with Ingeteam's INGECON® SUN STORAGE 1Play TL M hybrid inverter (solar-plus-storage inverter).

The use of both items of equipment together makes it possible to create hybrid systems that combine PV power generation with energy storage, with no need to add additional solar PV inverters. Moreover, Ingeteam's hybrid inverter, in combination with the BYD batteries, allows for operation in off-grid, back-up (UPS) and self-consumption modes. Thus, for grid-connected systems, the solar energy generated during the day can be stored for night-time consumption, giving the highest possible self-consumption ratios and, thanks to the possibility of operating in backup mode (UPS), the power supply is maintained in the event of a grid outage.

The BYD high-voltage lithium iron phosphate (LFP) batteries, with capacities ranging from 5.1 kWh to 22.1 kWh (depending on the model) are designed for residential and commercial use. Their patented modular plug-in design makes it possible to connect the different battery modules with no need for wiring, making installation incredibly quick and easy. Specifically, the following BYD battery models are compatible with the Ingeteam hybrid inverter: **HVS** (5.1, 7.7 and 10.2) and **HVM** (8.3, 11.0, 13.8, 16.6, 19.3 and 22.1).

For its part, the Ingeteam inverter makes it possible to connect a battery bank and two PV arrays to the same unit, thereby reducing the cost of the system as a whole. It features two PV inputs, each of which has its own maximum power point tracking system (MPPT), allowing it to manage up to 11.5 kW of power from the solar panels which can be roof-mounted with two orientations. This 3 or 6 kW single-phase transformerless inverter has been designed for use in residential and commercial installations alike. Moreover, this inverter is supplied with the EMS control system as standard, allowing it to deploy advanced functionalities with no need to add another device for additional

control.

The monitoring of the hybrid system is carried out easily and intuitively thanks to the software developed by Ingeteam: INGECON® SUN Monitor, which allows access to all the data of the photovoltaic installation, the batteries, etc., so that the user has total control over his/her electricity consumption.

About BYD

BYD is a high-tech multinational founded in 1995 and is listed on the Hong Kong and Shenzhen Stock Exchanges. BYD has expanded from a company that solely manufactured and marketed rechargeable batteries to now operate in four key sectors, namely IT, automobiles, new energies and rail transit. The company has a workforce of 220,000 and more than 30 industrial parks and production plants worldwide.

About the Ingeteam group

Ingeteam is an international technology group specializing in energy conversion. Its technological development in power and control electronics (inverters, frequency converters, controllers and protections), rotary electric machines (Indar motors, generators and submersible motor & pump sets), systems (integration of electromechanical engineering and automation), and operation & maintenance services, allow Ingeteam to offer solutions for sectors such as wind, solar PV, hydro and fossil fuel power generation, metal processing, marine, rail traction and the electricity grid, including the substations and covering transmission and distribution, always striving to optimize power generation and consumption.

The Ingeteam Group operates throughout the world, with permanent facilities in 24 countries, employing more than 4,000 persons. R&D&i is the backbone of its business activity, in which more than 5% of the company's turnover is invested annually.

