



Clean energy for stable grids.

The bidirectional battery inverter blueplanet gridsave 250 TL3.

The blueplanet gridsave 250 TL3 is a Power Conversion System (PCS) for storage applications from 250 kilowatts up into the megawatt range. Public utilities, distribution system operators, EPCs and large businesses alike will profit from its grid management capabilities in order to balance generation and load of power networks.

As a bidirectional battery inverter the blueplanet gridsave 250 TL3 is deployed between battery storage and power grid. The PCS saves energy from the grid during nighttime or excessive energy from solar inverters into batteries. By supplying the stored energy in times of high energy demand during the day, it regulates energy peaks.

Charging and discharging batteries the blueplanet gridsave 250 TL3 also provides grid support by compensating reactive power or supplying additional active power. It is compatible with lithium ion battery technologies.

The power grid in question can be the national grid, a grid-tied power supply of a small town or industrial facility, or even a self-sustaining island grid: The size of the storage system is scalable according to requirements.

The battery inverter can handle various energy sources and react to charging loads in real time. It can therefore be customized for use in PV diesel hybrid systems, for example.

The blueplanet gridsave 250 TL3 communicates via Modbus. This widespread interface allows for a large number of available controllers (PMS) to manage the energy storage system. It can therefore easily meet individual requirements in the design of a storage system.



blueplanet gridsave 250 TL3

Static and dynamic grid support

Capable of reactive power

250 kVA rated power

Scalable system

AC-coupled

Lithium Ion Battery System

Modbus communication interface
for use with different controllers

Electrical data **gridsave 250 TL3** **PRELIMINARY**

DC side

DC input range	630 – 820 V
Max. battery current	397 A
Number of DC inputs	1

AC side

Max. output power / rated power	250 kVA / 250 kW
Voltage to external transformer	3 x 380 V (+/- 10 % , 3P3W) / 3 x 400 V
Max. output current	410 A
THD / THD each	< 5 % / < 3 %
Cos phi (power factor)	0.85 inductive ... 1 ... 0.85 capacitive

General electrical data

Max. efficiency inverter	97.2 %
Internal consumption	< 1 % of rated power

Mechanical data

Interfaces	TFT LCD display with touchpanel, RS485 / Ethernet / CAN / 2 user digital input / output
Protocol	Modbus TCP/IP, Modbus RTU (RS485), CAN
Ambient temperature	0 ... +40 °C full rated power, no derating
Cooling	fan
Audible noise	< 70 db(A)
Protection class	IP20
H x W x D	1830 x 1000 x 800 mm
Weight	720 kg

Supported functions

Operation mode

Constant current	yes
Constant power	yes

Static grid support

Active power related frequency P(f)	yes
Reactive power related voltage Q(U)	yes

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