



Data sheet
blueplanet
gridsave 14.0 TL3

Peak savings.

The bidirectional battery inverter blueplanet gridsave 14.0 TL3.

Do you generally have a well-balanced load profile with average demand within your company, and is the energy balance only ruined by a few steep peak demands? To avoid this, we have designed the new blueplanet gridsave 14.0 TL3 bidirectional battery inverter.

As with the blueplanet gridsave 120 TL3 (formerly bluestorage 120 TL3), it is connected to AC sources, such as the inverters of a photovoltaic installation, to charge storage systems with electrical energy. It draws power from the battery, if required, and feeds it 3-phase into the local grid: the perfect solution for optimising PV self-use and intelligent load management.

Developed for larger buildings such as hotels or public institutions, as well as small commercial applications, the blueplanet gridsave 14.0 TL3 is a central component for using peak shaving to keep the connected load at the minimum level required for regular operation. By putting a cap on expensive peaks in power, it makes a significant and immediate contribution to reducing the energy costs of small and medium-sized businesses.

The blueplanet gridsave 14.0 TL3 was developed with maximum economy in mind and therefore fits inside the standard housing of our Powador 12.0 to 20.0 TL3 string inverters. Specially adapted for lithium-ion high-voltage batteries

from SAFT, it guarantees the storage system has the highest levels of operational safety.

The technology of our battery inverters is an integral part of the energy management system for a group of buildings, such as our pilot project in the German town of Weinsberg. The project was awarded the first "Smart Grids-Quarter-Award" in 2015.

Available in Q4/2015.



blueplanet gridsave 14.0 TL3

Nominal power 14 kVA, 3-phase

Min. / max. battery voltage
260 V / 700 V

Excellent value for money due to high
volume components

Maximum safety thanks to a
harmonised approach with
SAFT lithium-ion batteries

Electrical data		blueplanet gridsave 14.0 TL3
Battery connection side		
Maximum battery system voltage		700 V
Minimum battery system voltage		210 V (limited power)
Maximum battery current		50 A
Number of battery inputs		1
Compatible battery type		SAFT Intensium Home 10M
Grid connection side		
Nominal power		14.0 kVA ¹⁾
Grid voltage		400 V / 230 V (3 / N / PE)
Rated current		3 x 20.3 A
Rated frequency		50 Hz / 60 Hz
cos phi		0.30 inductive ... 0.30 capacitive
Number of grid phases		3
General electrical data		
Max. efficiency		96.6 %
Internal consumption standby		20 W
Internal battery-side switch		optional
GFDI monitoring		optional
Off-grid operation		no
Inverter control		via integrated EMS
Circuitry topology		transformerless
Grid monitoring		VDE-AR-N 4105
CE conformity		yes
Electrical safety		IEC 62477
Mechanical data		
Display		graphical display + LEDs
Control units		4-way navigation + 2 buttons
Interfaces, power		DC side: connector (Anderson SB50, black) AC side: connector (Phoenix PRC 5-FC-FS6)
Interfaces, power		Ethernet, USB, RS485, S0 output, digital input „inverter off“, CAN
Ambient temperature		-20°C ... +40°C ²⁾
Cooling		temperature-controlled fan
Protection class		IP21
Noise emission		< 52 dB (A) (noiseless when operated without fan)
Casing		aluminium casting
H x W x D		690 x 420 x 200 mm
Weight		< 46 kg

¹⁾ dependent on nominal battery voltage and capability of the battery.

²⁾ Power derating possible.

Ihr Händler vor Ort