

OUTDOOR COMMERCIAL AND INDUSTRIAL BATTERY STORAGE

The efficient and flexible solution for your business

ENERGY CAPACITY: 384 KWH

POWER: 386 KW

AUTOMOTIVE BATTERIES

INDIVIDUALLY SCALABLE



OVERVIEW

- Intelligent and holistic energy management system
- Plug & Play: interconnection of several containers
- PGP* controller and plant certificate on request
- Use of high-quality automotive batteries
- Air conditioning & inverter integrated
- Visualization via web interface

*Power generation plant

www.tricera.energy

The **outdoor storage** solution **TRICERA Flex400e** combines compact design, batteries, battery and energy management system as well as extensive safety features. TRICERA offers a **robust and modular solution** that minimizes the installation and maintenance time, **extends the system life** and **increases the safety**.

APPLICATIONS

- PV self-consumption optimization
- Buffer storage of charging stations
- Grid expansion avoidance
- Grid services
- Autarky enhancement
- Peak Shaving



TECHNICAL SPECIFICATIONS



CONTAINER

Dimensions (H x W x D)	2,591 x 2,438 x 2,991 mm
Weight	Up to 9,000 kg*
Climatisation	Included
Ambient temp. range	-20 to 40 °C **
Protection class	Based on IP54
Communication Interface	Modbus TCP/IP



BATTERY UNIT

Nominal energy capacity	Up to 384 kWh @ Begin of Life (4x Flex100e)
Usable energy capacity	Up to 384 kWh @nominal power @begin of life
Battery chemistry	NMC lithium-ion cells in automotive power module
DC-voltage	620 to 835 V _{DC}



POWER UNIT**

Inverter	KACO blueplanet gridsave 92.0 TL3-S XL
Nominal power	Up to 368 kW (4x KACO blueplanet gridsave 92.0)
AC connection voltage	400 V _{AC}
Grid connection	Directly with 400 V _{AC} to the low-voltage main distribution or optionally with external transformer to 10/20 kV medium voltage

SKALABILITY

Container	1 container		2 containers		3 containers		4 containers		∞
Electrical parameters	192 kWh		384 kWh		576 kWh		768 kWh		∞
	1x Power unit		2x Power unit		3x Power unit		4x Power unit		∞
Power unit	92 kW	184kW	184kW	368 kW	276 kW	552 kW	368 kW	736 kW	∞

* The weight of the battery container depends on the number of installed battery and power units.

** Above 30 °C, the maximum inverter power may possibly be reduced by derating.

