

INDOOR COMMERCIAL AND INDUSTRIAL BATTERY STORAGE

The efficient and flexible
solution for your business

CAPACITY: 96 kWh

POWER: 92 kW

AUTOMOTIVE BATTERIES

INDIVIDUALLY SCALABLE

OPTIONAL: NETWORK BOOSTER FOR NETWORK OPERATORS



OVERVIEW

- Intelligent and holistic energy management system
- Easily scalable through interconnection of several Flex100e
- PGP* controller and plant certificate on request
- Use of high-quality automotive batteries
- Connection via inverter to low voltage distribution
- Visualization via web interface

*Power generation plant

www.tricera.energy

The **indoor storage** solution **TRICERA Flex100e** combines compact design, batteries, battery and energy management system as well as extensive safety features. TRICERA offers a **robust and modular solution** based on proven industrial technology that minimizes installation and maintenance time, **extends system life** and **increases safety**.

APPLICATIONS

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



TECHNICAL SPECIFICATIONS



BATTERY RACK & CASE

Dimensions (H x W x D)	1,816 x 943 x 1,154 mm
Weight	1,500 kg
Climatisation	external HVAC (ambient AC)
Ambient temp. range	10 to 35 °C*
Protection class	IP 20
Communication Interface	Modbus TCP/IP



BATTERY UNIT

Nominal energy capacity	Up to 96,1 kWh @Begin of Life
Usable energy capacity	89,9 kWh @92 kW @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
Nominal power	92 kW
AC connection voltage	400 V _{AC}
Grid connection	400 V _{AC} (no transformer necessary)

SCALABILITY (Flex100e - xBxP)

Capacity / Power		Housing								∞
		96 kWh	192 kWh	288 kWh	384 kWh	480 kWh	576 kWh	672 kWh	768 kWh	
		1BxP	2BxP	3BxP	4BxP	5BxP	6BxP	7BxP	8BxP	∞
92 kW	xB1P	1B1P	2B1P	-	-	-	-	-	-	∞
184 kW	xB2P	-	2B2P	-	4B2P	-	-	-	-	∞
276 kW	xB3P	-	-	3B3P	-	-	6B3P	-	-	∞
368 kW	xB4P	-	-	-	4B4P	-	-	-	8B4P	∞

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

** The power unit is located outside the battery rack.

